Colour Television

Chassis

LC4.31E

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Service
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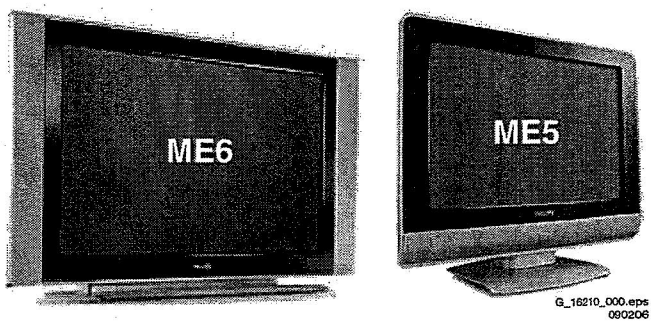

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Service Manual

Contents

Published by WS 0665 BG CD Customer Service

Subject to modification

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PHILIPS

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

Notes:

- Figures can deviate due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Vision

Display type	: LCD, IPS
Screen size	:
- 26PF5321/10/12	: 26" (66 cm), 16:9
- 32PF5321/10/12	: 32" (82 cm), 16:9
- 37PF5321/10/12	: 37" (94 cm), 16:9
- 26PF7321/12	: 26" (66 cm), 16:9
- 32PF7321/12	: 32" (82 cm), 16:9
- 37PF7321/10/12	: 37" (94 cm), 16:9
- 42PF5421/10	: 42" (107 cm), 16:9
Resolution (HxV pixels)	: 1366 x 768
Contrast ratio	:
- 26PF5321/10/12	: 1200:1
- 32PF5321/10/12	: 1200:1
- 37PF5321/10/12	: 1200:1
- 26PF7321/12	: 2400:1
- 32PF7321/12	: 2400:1
- 37PF7321/10/12	: 2400:1
- 42PF5421/10	: 4000:1
Light output (cd/m^2)	: 500
Response time (ms)	: 8
Viewing angle (HxV degrees)	:
- 26PF5321/10/12	: 178x178
- 32PF5321/10/12	: 178x178
- 37PF5321/10/12	: 176x176
- 26PF7321/12	: 178x178
- 32PF7321/12	: 178x178
- 37PF7321/10/12	: 176x176
- 42PF5421/10	: 176x176
Tuning system	: PLL
TV Colour systems	: PAL B/G, D/K, I : SECAM B/G, D/K, L/L'
Video playback	: NTSC M/N 3.58, 4.43 : PAL B/G : SECAM L/L'
Supported computer formats	: VGA (640x480) : MAC (640x480) : SVGA (800x600) : XVGA (1024x768) : WXGA (1280x768)
Supported video formats	: 640x480p - 2fH : 720x576p - 2fH : 1280x720p - 3fH : 1920x1080i - 2fH
Presets/channels	: 100 presets
Tuner bands	: VHF : UHF : S-band : Hyper-band

1.1.2 Sound

Sound systems	: NICAM B/G, D/K, I, L : AV Stereo
Maximum power (W_{RMS})	:
- 26PF5321/10/12	: 2 x 5
- 32PF5321/10/12	: 2 x 15
- 37PF5321/10/12	: 2 x 15
- 26PF7321/12	: 2 x 5
- 32PF7321/12	: 2 x 15
- 37PF7321/10/12	: 2 x 15
- 42PF5421/10	: 2 x 15

1.1.3 Miscellaneous

Power supply:	
Mains voltage (V_{AC})	:
- 26PF5321/10/12	: 110 - 240
- 32PF5321/10/12	: 110 - 240
- 37PF5321/10/12	: 220 - 240
- 26PF7321/12	: 110 - 240
- 32PF7321/12	: 110 - 240
- 37PF7321/10/12	: 220 - 240
- 42PF5421/10	: 220 - 240
Mains frequency (Hz)	: 50 / 60
Ambient conditions:	
- Temperature range (°C)	: +5 to +40
- Maximum humidity	: 90% R.H.
Power consumption:	
Normal operation (W)	:
- 26PF5321/10/12	: 100
- 32PF5321/10/12	: 120
- 37PF5321/10/12	: 180
- 26PF7321/12	: 100
- 32PF7321/12	: 120
- 37PF7321/10/12	: 180
- 42PF5421/10	: 246
Stand-by (W)	:
- 26PF5321/10/12	: < 1
- 32PF5321/10/12	: < 1
- 37PF5321/10/12	: < 2
- 26PF7321/12	: < 1
- 32PF7321/12	: < 1
- 37PF7321/10/12	: < 2
- 42PF5421/10	: < 1
Dimensions (WxHxD cm):	
- 26PF5321/10/12	: 80.45 x 43.8 x 11.4
- 32PF5321/10/12	: 92.4 x 50.7 x 11.9
- 37PF5321/10/12	: 110.0 x 60.9 x 10.25
- 26PF7321/12	: 69.75 x 49.48 x 9.97
- 32PF7321/12	: 93.5 x 51.65 x 12.0
- 37PF7321/10/12	: 111.4 x 61.8 x 10.3
- 42PF5421/10	: 123.7 x 68.8 x 11.0
Weight (kg):	
- 26PF5321/10/12	: 13.3
- 32PF5321/10/12	: 18.9
- 37PF5321/10/12	: 25.1

- 26PF7321/12	: 13.0
- 32PF7321/12	: 19.2
- 37PF7321/10/12	: 25.9
- 42PF5421/10	: 31.5

1.2 Connection Overview

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, and Ye= Yellow.

1.2.1 Side I/O connections

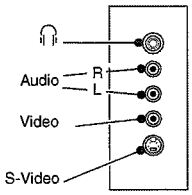

Figure 1-1 Side I/O connections

S-Video (Hosiden): Video Y/C - In

1	- Ground Y	Gnd
2	- Ground C	Gnd
3	- Video Y	1 V_{PP} / 75 ohm
4	- Video C	0.3 V_{PP} / 75 ohm

Cinch: Video CVBS - In, Audio - In

Ye	- Video CVBS	1 V_{PP} / 75 ohm
Wh	- Audio L	0.5 V_{RMS} / 10 kohm
Rd	- Audio R	0.5 V_{RMS} / 10 kohm

Mini Jack: Audio Head phone - Out

Bk	- Head phone	32 - 600 ohm / 10 mW

1.2.2 Rear Connections

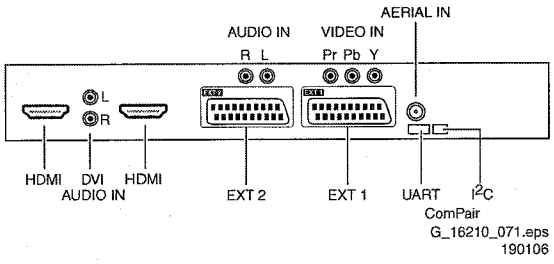

Figure 1-2 Rear I/O

Aerial - In

-	- IEC-type (EU)	Coax, 75 ohm

Cinch: Audio - In

Wh	- Audio L	0.5 V_{RMS} / 10 kohm
Rd	- Audio R	0.5 V_{RMS} / 10 kohm

Cinch: Video YPbPr - In

Gn	- Video Y	1 V_{PP} / 75 ohm
Bu	- Video Pb	0.7 V_{PP} / 75 ohm
Rd	- Video Pr	0.7 V_{PP} / 75 ohm

Cinch: DVI Audio - In

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm

Service connector (ComPair)

1	- SDA-S	I^2C Data (0 - 5 V)
2	- SCL-S	I^2C Clock (0 - 5 V)
3	- Ground	Gnd

Service connector (UART)

1	- UART_TX	Transmit
2	- Ground	Gnd
3	- UART_RX	Receive

HDMI: Digital Video/Digital Audio - In

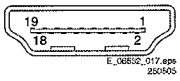

Figure 1-3 HDMI (type A) connector

1	- D2+	Data channel
2	- Shield	Gnd
3	- D2-	Data channel
4	- D1+	Data channel
5	- Shield	Gnd
6	- D1-	Data channel
7	- D0+	Data channel
8	- Shield	Gnd
9	- D0-	Data channel
10	- CLK+	Data channel
11	- Shield	Gnd
12	- CLK-	Data channel
13	- n.c.	
14	- n.c.	
15	- DDC_SCL	DDC clock
16	- DDC_SDA	DDC data
17	- Ground	Gnd
18	- +5V	
19	- HPD	Hot Plug Detect
20	- Ground	Gnd

EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out

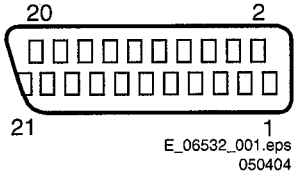

Figure 1-4 SCART connector

1	- Audio R	0.5 V_{RMS} / 1 kohm
2	- Audio R	0.5 V_{RMS} / 10 kohm
3	- Audio L	0.5 V_{RMS} / 1 kohm
4	- Ground Audio	Gnd
5	- Ground Blue	Gnd
6	- Audio L	0.5 V_{RMS} / 10 kohm
7	- Video Blue	0.7 V_{PP} / 75 ohm
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9	- Ground Green	Gnd
10	- n.c.	
11	- Video Green	0.7 V_{PP} / 75 ohm
12	- n.c.	
13	- Ground Red	Gnd
14	- Ground	Gnd
15	- Video Red	0.7 V_{PP} / 75 ohm
16	- Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm
17	- Ground Video	Gnd
18	- Ground FBL	Gnd
19	- Video Terr. CVBS	1 V_{PP} / 75 ohm
20	- Video CVBS/Y	1 V_{PP} / 75 ohm
21	- Shield	Gnd

EXT2: Video Y/C - in, CVBS - In/Out, Audio - In/Out

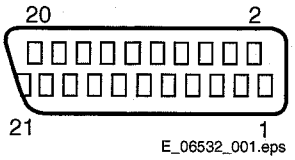

Figure 1-5 SCART connector

1	- Audio R	0.5 V_{RMS} / 1 kohm	⊖→
2	- Audio R	0.5 V_{RMS} / 10 kohm	→⊖
3	- Audio L	0.5 V_{RMS} / 1 kohm	⊖→
4	- Ground Audio	Gnd	⏚
5	- Ground Blue	Gnd	⏚
6	- Audio L	0.5 V_{RMS} / 10 kohm	→⊖
7	- n.c.		
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	→⊖
9	- Ground Green	Gnd	⏚
10	- n.c.		
11	- n.c.		
12	- n.c.		
13	- Ground Red	Gnd	⏚
14	- Ground	Gnd	⏚
15	- YC/C - in	0.7 V_{PP} / 75 ohm	→⊖
16	- n.c.		
17	- Ground Video	Gnd	⏚
18	- Ground	Gnd	⏚
19	- Video Mon. CVBS	1 V_{PP} / 75 ohm	⊖→
20	- YC/Y - in	0.7 V_{PP} / 75 ohm	→⊖
21	- Shield	Gnd	⏚

1.3 Chassis Overview

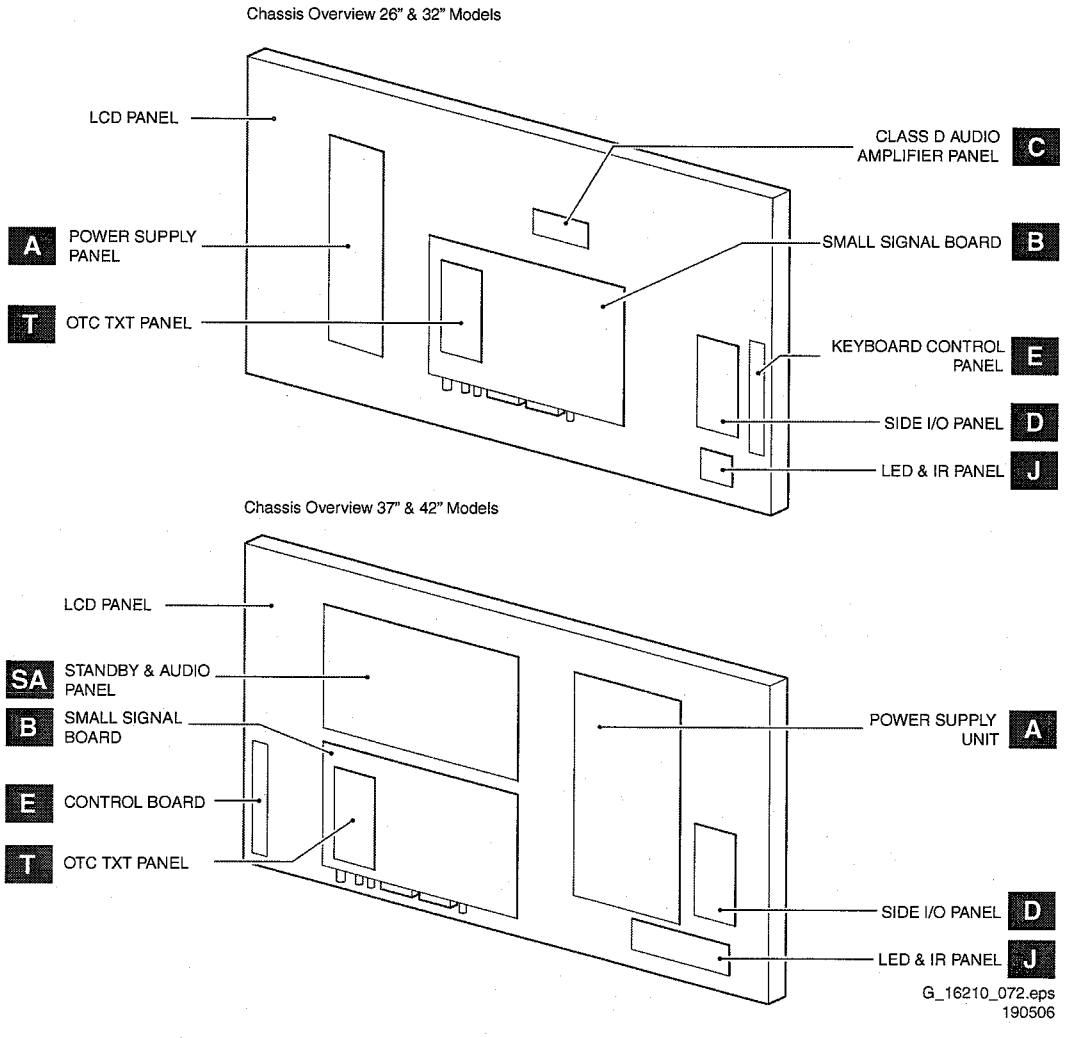

Figure 1-6 Chassis overview

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

2.1 Safety Instructions

Safety regulations require the following **during** a repair:
- Connect the set to the Mains (AC Power) via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:
- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains (AC Power) lead for external damage.
- Check the strain relief of the Mains (AC Power) cord for proper function.
- Check the electrical DC resistance between the Mains (AC Power) plug and the secondary side (only for sets that have a Mains (AC Power) isolated power supply):
  1. Unplug the Mains (AC Power) cord and connect a wire between the two pins of the Mains (AC Power) plug.
  2. Set the Mains (AC Power) switch to the "on" position (keep the Mains (AC Power) cord unplugged!).
  3. Measure the resistance value between the pins of the Mains (AC Power) plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains (AC Power) plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ⚠). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏚), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (⊓) and without (⊼) aerial signal. Measure the voltages in the power supply section both in normal operation (⏻) and in stand-by (⏻). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-12}).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Rework on BGA (Ball Grid Array) ICs

General
Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device Removal
As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature.
A uniform temperature reduces the risk of warping the PWB. To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation
When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA.
Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent.

After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.
Note: Do not apply solder paste, as this has been shown to result in problems during re-soldering.

Device Replacement
The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

More Information
For more information on how to handle BGA devices, visit this URL: *www.atyourservice.ce.philips.com* (needs subscription, not available for all regions). After login, select "Magazine", then go to "Repair downloads". Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).

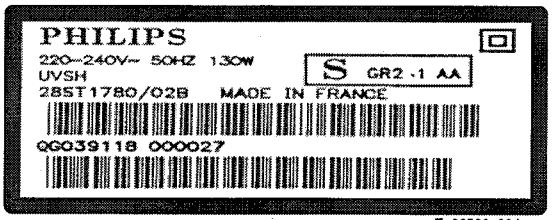

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Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.

Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  - To reach a solder-tip temperature of at least 400°C.
  - To stabilise the adjusted temperature at the solder-tip.
  - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch "off" unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).
  Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid the mixing of two alloys).

Caution: For BGA-ICs, you **must** use the correct temperature profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions).
You will find this and more technical information within the "Magazine", chapter "Repair downloads".
For additional questions please contact your local repair help desk.

2.3.5 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG**2**B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.
By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used.
If the third digit of the serial number contains the number 1 (example: AG**1**B033500001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG**2**B0335000001), then there are two different B.O.M.s. ***Information about this is important for ordering the correct spare parts!***
For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.

- **Always respect voltages.** While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

You can download this information from the following websites:
http://www.philips.com/support
http://www.p4c.philips.com

4. Mechanical Instructions

Index of this chapter:

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassembling instructions in described order.

4.1 Cable Dressing

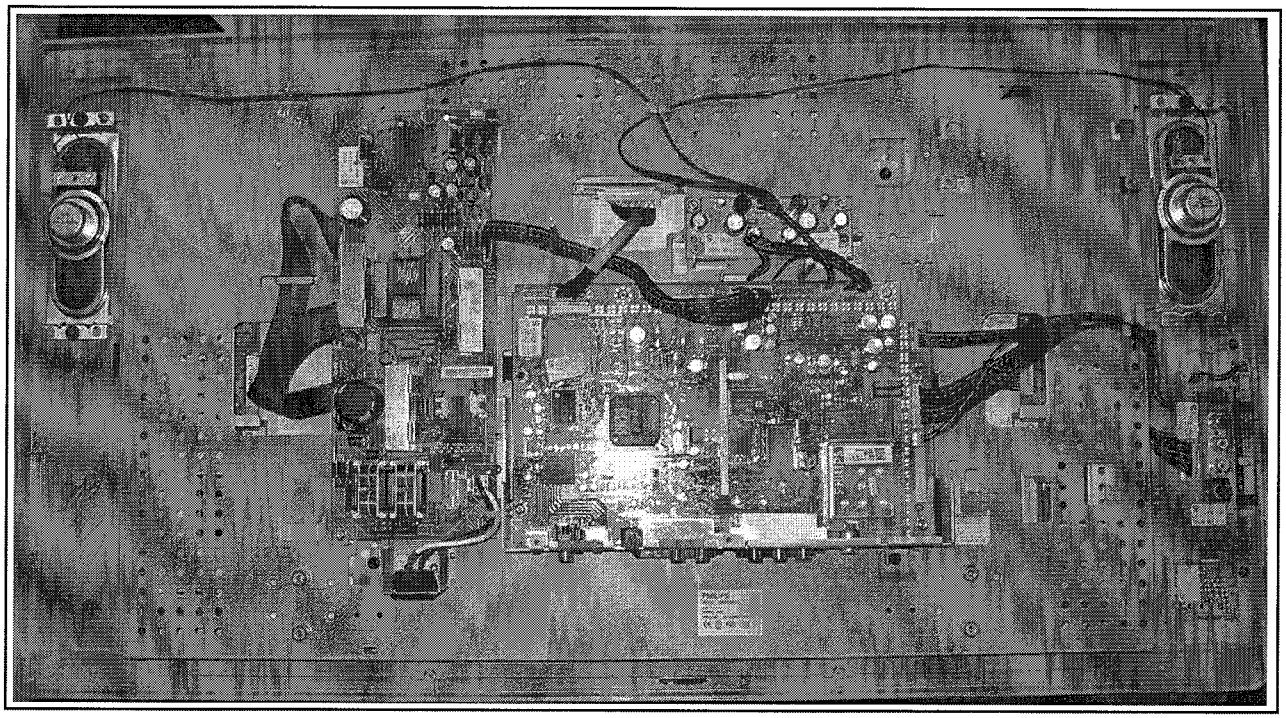

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Figure 4-1 Cable dressing (26PF5321/10)

4.2 Service Position

First, put the TV set in its service position. Therefore, place it upside down on a table top (use a protection sheet or foam bars).

4.2.1 The Foam Bars

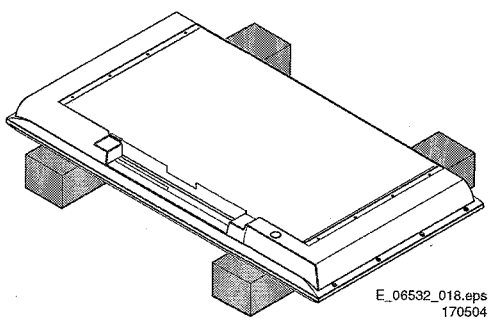

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Figure 4-2 Foam bars

The foam bars (order code 3122 785 90580) can be used for all types and sizes of Flat TVs. By laying the plasma or LCD TV flat on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments. By first placing a mirror flat on the table under the TV you can easily see if something is happening on the screen.

4.3 Assy/Panel Removal

4.3.1 Rear Cover

Warning: Disconnect the mains power cord before you remove the rear cover.

1. Remove the screws that secure the rear cover.
2. Lift the rear cover from the cabinet cautiously. Make sure that wires and other internal components are not damaged during cover removal.

4.3.2 Side I/O Panel

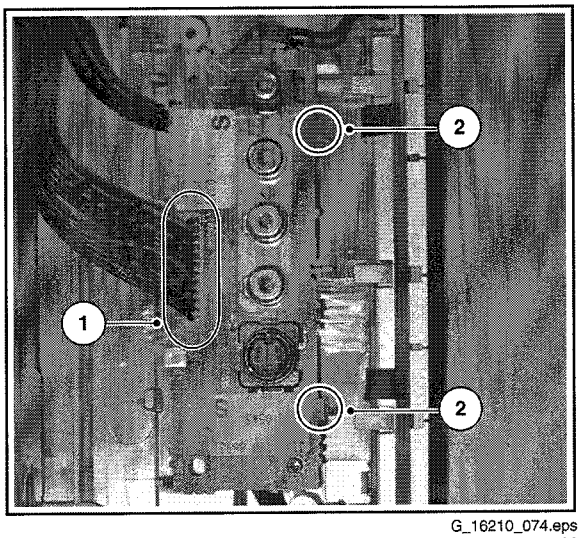

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Figure 4-3 Side I/O panel

1. Disconnect the cable [1] from the panel.
2. Release the two fixation clamps [2] and lift the panel out of the bracket.

4.3.3 LED Panel

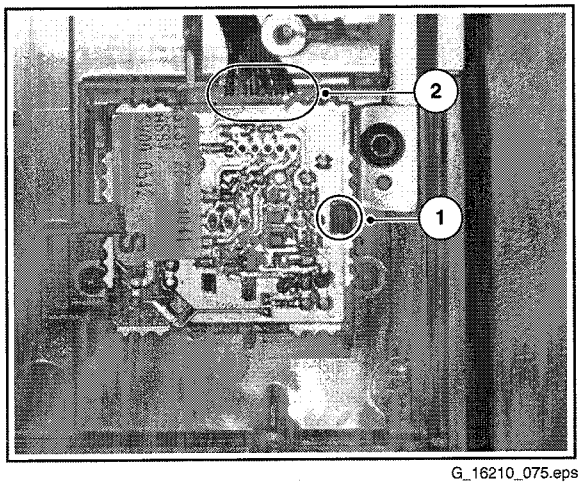

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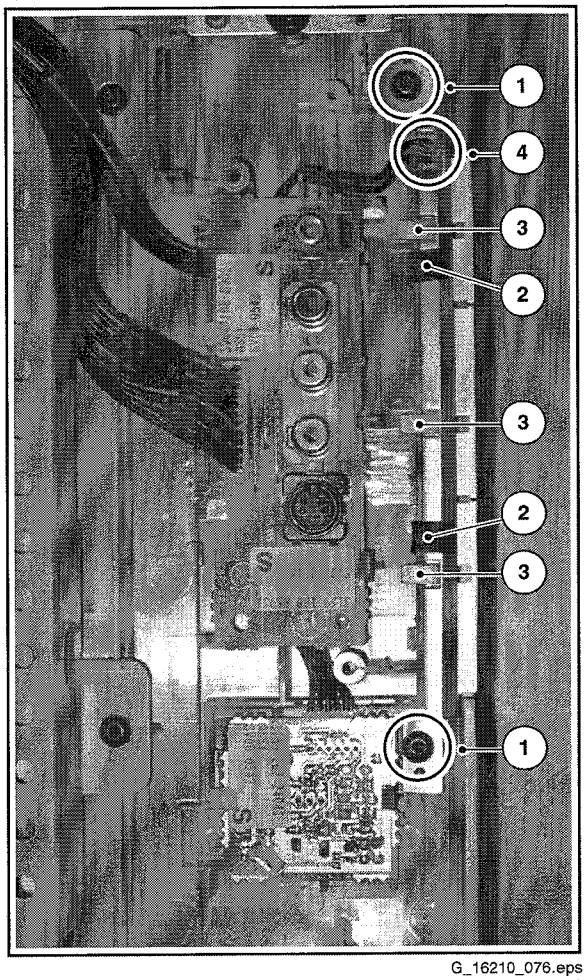
Figure 4-4 LED panel

1. Release the fixation clamp [1] and take the panel out of the bracket.
2. Disconnect the cable [2] from the panel.

4.3.4 Keyboard Control Panel



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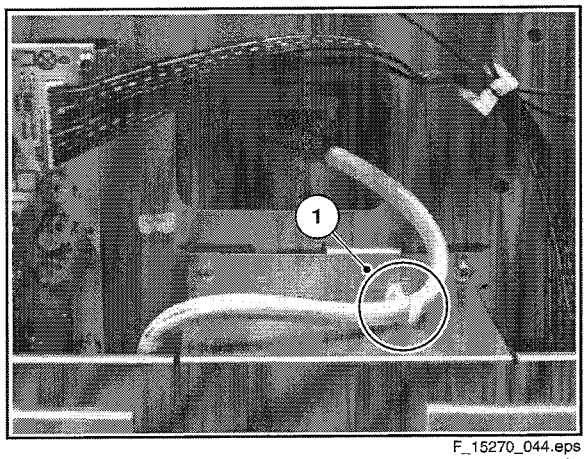
190106

Figure 4-5 Keyboard control panel

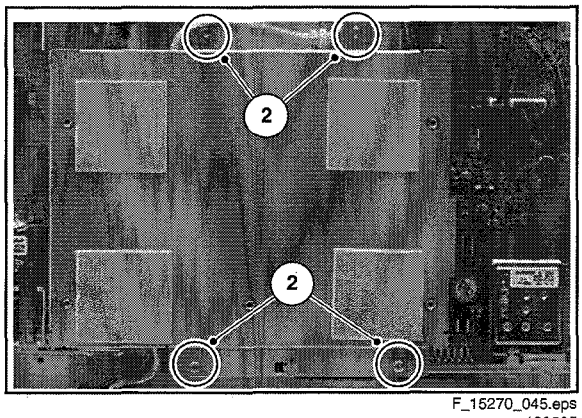
1. Remove the two fixation screws [1] from the bracket and take out the panel/bracket combination.
2. Remove the fixation tape [2] from the panel/bracket combination.
3. Release the three fixation clamps [3] and lift the panel out of the bracket.
4. Disconnect the cable [4] from the panel.

4.3.5 SSB Cover Shield (depending on model)



F_15270_044.eps
180505

Figure 4-6 Cable clip on cover shield

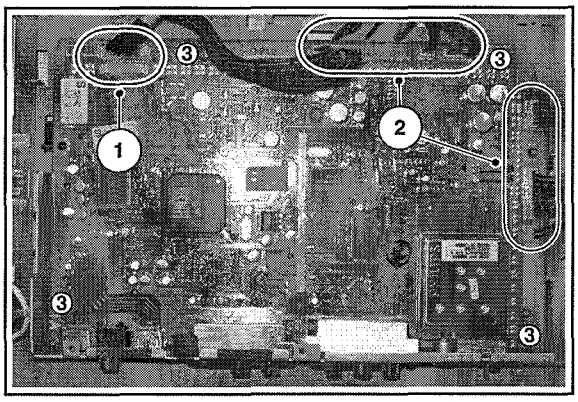


F_15270_045.eps
190505

Figure 4-7 SSB cover shield

1. Release the cable from the plastic cable clip [1] on the shield (see Figure "Cable clip on cover shield" above).
2. Remove the four fixation screws (2, see Figure "SSB cover shield"; the screws are also indicated by arrows on the shield) and remove the shield.
   Notice that on one side, the shield is not only held by two screws, but also by two brackets (see Figure "Cable clip on cover shield" above).

4.3.6 Small Signal Board



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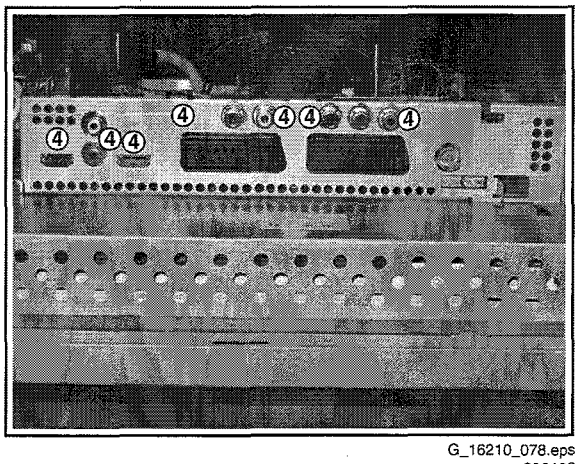
190106

Figure 4-8 SSB connectors



G_16210_078.eps
200106

Figure 4-9 Connector screws

1. Very **cautiously** disconnect the LVDS cable [1] from the panel (see Figure "SSB connectors"). Notice that this cable is very fragile.
2. Disconnect the other cables [2] from the panel.
3. Remove the fixation screws [3] that secure the SSB (depending on model) and also the fixation screws [4] from the connector plate (see Figure "Connector screws").
4. Take the panel out of its brackets.

4.3.7 Power Supply Panel (various models used)

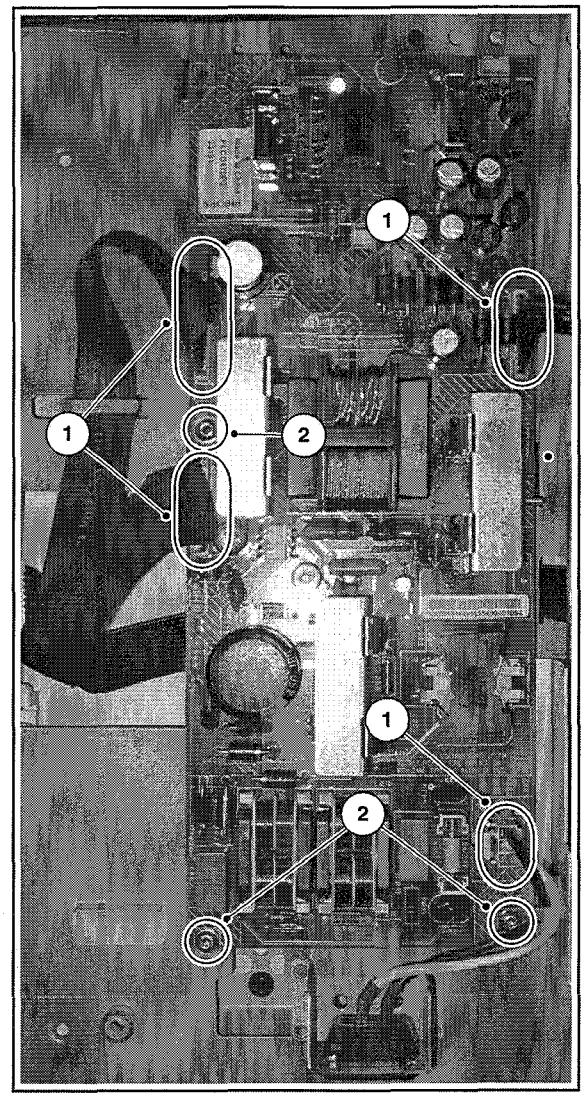


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Figure 4-10 Power supply panel

1. Disconnect all cables [1] from the panel.
   Notice that the two connectors for X520 and X530 on this panel are similar, and should not be mixed up later when they are reconnected (X520 is connected via its flatcable to connector CN01 on the LCD panel, near the R-speaker; X530 is connected via its flatcable to connector CN04 on the LCD panel, near the L-speaker).
2. Remove the fixation screws [2] from the panel.
3. Take the panel out of its brackets.

4.3.8 Audio Amplifier Panel

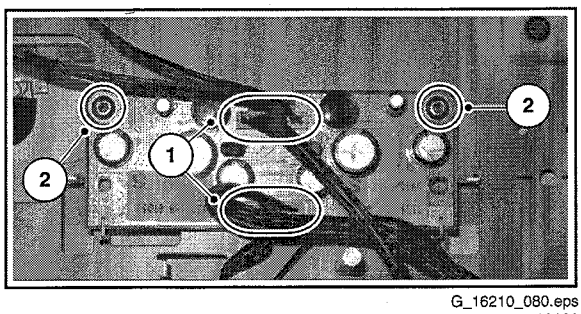

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Figure 4-11 Audio amplifier panel

1. Disconnect all cables [1] from the panel.
2. Remove the fixation screws [2] from the panel.
3. Remove the panel.

4.3.9 LCD Panel

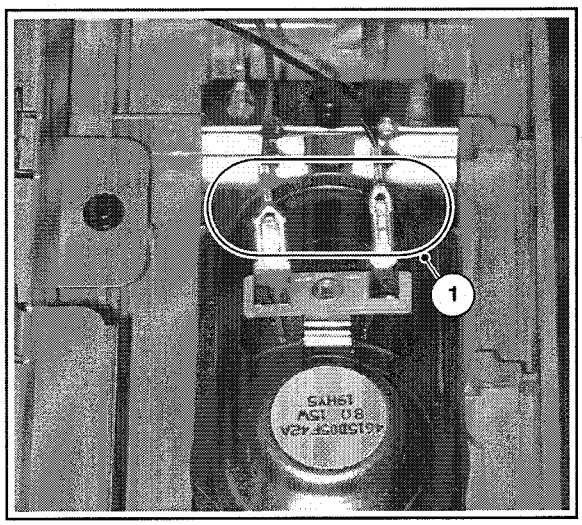

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Figure 4-12 Loudspeaker cables

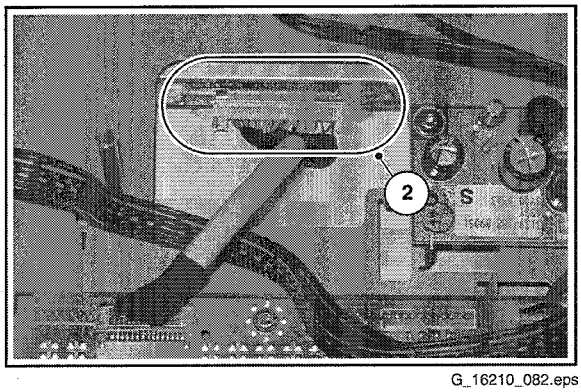

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Figure 4-13 LVDS connector

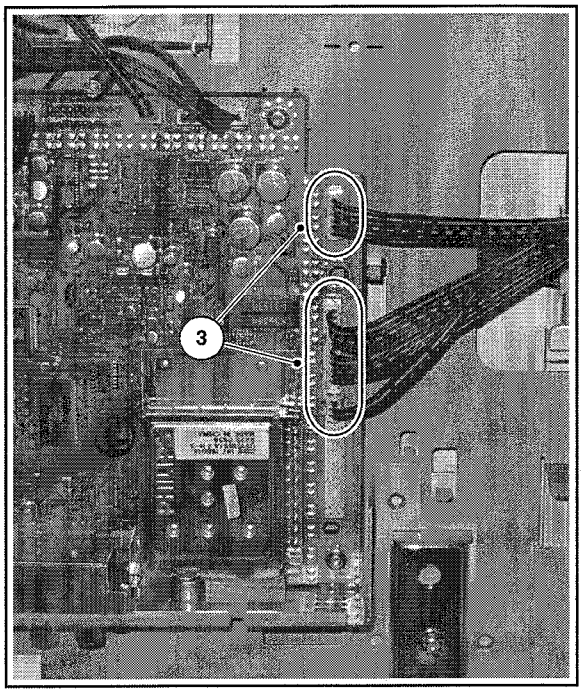

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Figure 4-14 SSB connectors for side I/O, side control panel, and LED

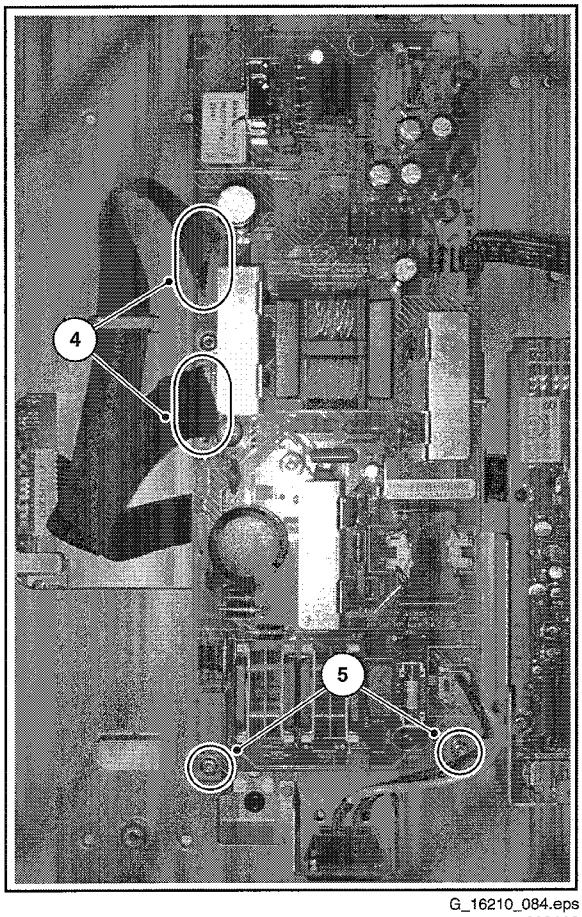

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Figure 4-15 Connectors X520 and X530 and fixation screws on power supply panel

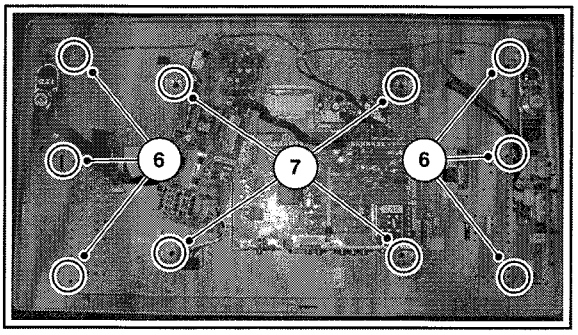

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Figure 4-16 Shield screws of the LCD panel

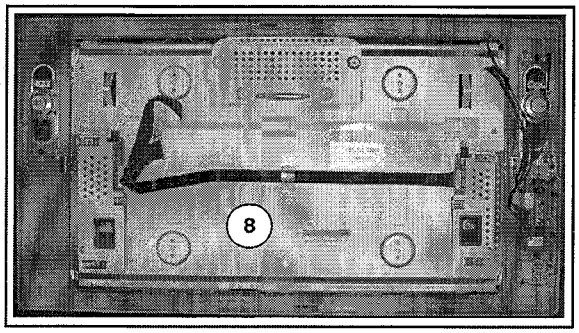

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Figure 4-17 LCD panel

To remove the LCD-panel, carry out the following steps:

1. Disconnect the cables [1] from the "L" and the "R" loudspeakers (see Figure "Loudspeaker cables").
2. **Important:** Unplug the LVDS connector [2] on the LCD panel (see Figure "LVDS connector"), or better: remove the cable completely.
   Be careful, as this is a very fragile connector/cable!
3. Unplug the connectors [3] of the Side I/O panel, the Top Control panel, and the LED panel on the SSB (see Figure "SSB connectors for side I/O, side control panel, and LED").
4. Unplug the connectors X520 and X530 [4] on the Power Supply board (see Figure "Connectors X520 and X530 and fixation screws on power supply panel").
5. Loosen the fixation screws [5] from the power supply board, and put the power supply board a bit aside.
6. Loosen screws [6] and [7] (see Figure "Shield screws of the LCD panel").
7. Lift the metal frame (together with all PWBs) from the LCD panel.
   Take care not to damage the fragile LVDS cable.
8. After removal of the metal frame, you can lift the LCD display [8] from its plastic frame (see Figure "LCD panel").
9. If the plastic frame is damaged, replace it by a new frame, after removing the loudspeakers, the Side I/O panel, the Side Control panel, and the LED panel.

4.4 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:

- While re-assembling, make sure that all cables are placed and connected in their original positions. See Figure "Cable dressing".
  Be careful with the fragile LVDS cable.

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points

This chassis is equipped with test points. In the schematics, test points are indicated with a rectangle box around Fxxx or Ixxx, in the layouts with a half-moon.
Perform measurements under the following conditions:

- Television set in Service Default Mode.
- Video input: Colour bar signal.
- Audio input: 3 kHz left channel, 1 kHz right channel.

5.2 Service Modes

Service Default mode (SDM) and Service Alignment Mode (SAM) offer several features for the service technician, while the Customer Service Mode (CSM) is used for communication between the call centre and the customer.

This chassis also offers the option of using ComPair, a hardware interface between a computer and the TV chassis. It offers the possibilities of structured troubleshooting, error code reading, and software version read-out for all chassis.
Minimum requirements for ComPair: a Pentium processor, a Windows OS, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose

- To create a predefined setting for measurements to be made.
- To override software protections.
- To start the blinking LED procedure.
- To inspect the error buffer.
- To check the life timer.

Specifications

- Tuning frequency: 475.25 MHz.
- Colour system: PAL-BG.
- All picture settings at 50% (brightness, colour contrast, hue).
- Bass, treble, and balance at 50 %; volume at 25 %.
- All service-unfriendly modes (if present) are disabled. The service unfriendly modes are:
  - Timer / Sleep timer.
  - Child / parental lock.
  - Blue mute.
  - Hotel / hospital mode.
  - Auto shut off (when no "IDENT" video signal is received for 15 minutes).
  - Skipping of non-favourite presets / channels.
  - Auto-storage of personal presets.
  - Auto user menu time-out.
  - Auto Volume Levelling (AVL).

How to Enter

To enter SDM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: "**062596**" directly followed by the MENU button (do not allow the display to time out between entries while keying the sequence).
- Short one of the "Service" jumpers on the TV board during cold start and apply mains (see Figures "Service jumper"). Then press the mains button (remove the short after start-up).
  Caution: Entering SDM by shorting "Service" jumpers will override the +8V-protection. Do this only for a short period. When doing this, the service-technician must know exactly what he is doing, as it could damage the television set.
- Or via ComPair.

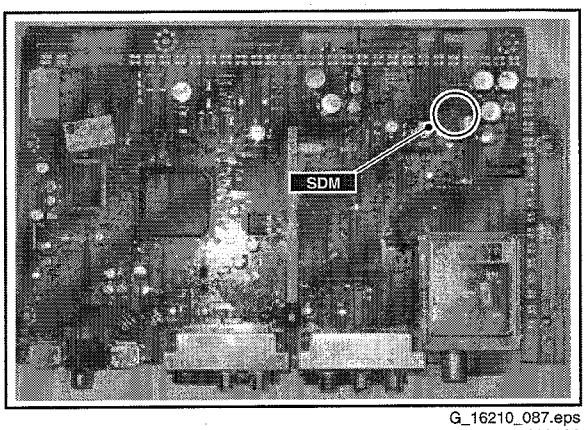

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Figure 5-1 Service jumper (component side)

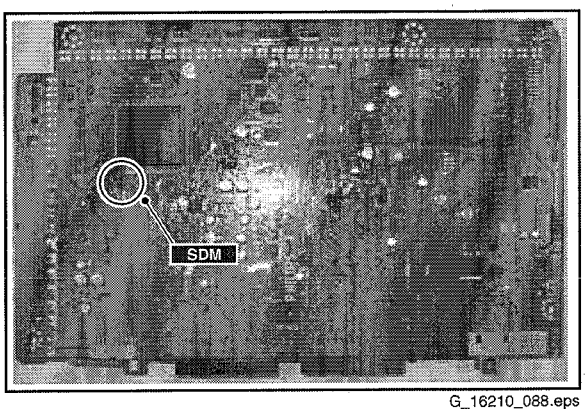

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Figure 5-2 Service jumper (solder side)

After entering SDM, the following screen is visible, with SDM in the upper right corner of the screen to indicate that the television is in Service Default Mode.

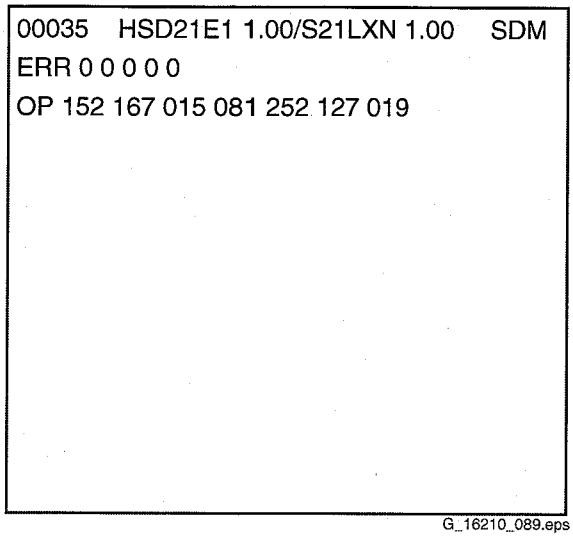

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Figure 5-3 SDM menu

How to Navigate

Use one of the following methods:

- When you press the MENU button on the remote control, the set will switch on the normal user menu in the SDM mode.
- On the TV, press and hold the VOLUME DOWN and press the CHANNEL DOWN for a few seconds, to switch from SDM to SAM and reverse; or press the following key sequence on the remote control transmitter: **"062596"** directly followed by the OSD button to switch to SAM (do not allow the display to time out between entries while keying the sequence).

How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set.
If you turn the television set off by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SDM when mains is re-applied, and the error buffer is not cleared.

5.2.2 Service Alignment Mode (SAM)

Purpose

- To change option settings.
- To display / clear the error code buffer.
- To perform alignments.

Specifications

- Operation hours counter (maximum five digits displayed).
- Software version, Error codes, and Option settings display.
- Error buffer clearing.
- Option settings.
- Software alignments (Tuner, White Tone, Geometry & Audio).
- NVM Editor.
- ComPair Mode switching.

How to Enter

To enter SAM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: **"062596"** directly followed by the OSD/ STATUS/INFO(I+) button (do not allow the display to time out between entries while keying the sequence).
- Or via ComPair.

After entering SAM, the following screen is visible, with SAM in the upper right corner of the screen to indicate that the television is in Service Alignment Mode.

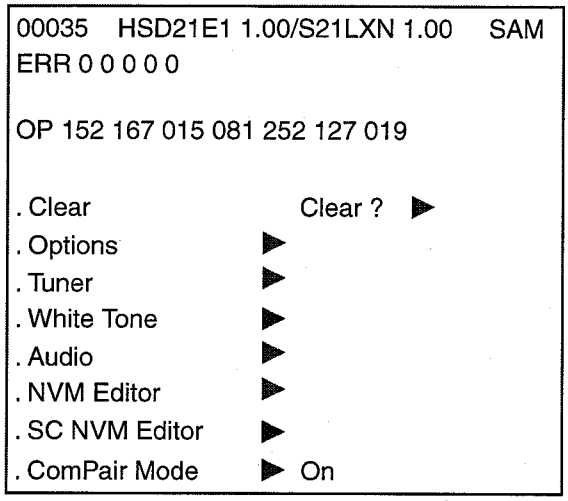

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Figure 5-4 SAM menu

Menu Explanation

1. **LLLLL.** This represents the run timer. The run timer counts normal operation hours, but does not count standby hours.
2. **AAABCD X.YY.** This is the software identification of the main microprocessor:
   - **A**= the project name (LC04.x).
   - **B**= the region: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM.
   - **C**= the software diversity:
     - **Europe:** T= 1 page TXT, F= Full TXT, V= Voice control.
     - **LATAM and NAFTA:** N= Stereo non-dBx, S= Stereo dBx.
     - **Asian Pacific:** T= TXT, N= non-TXT, C= NTSC.
     - **ALL regions:** M= mono, D= DVD, Q= Mk2.
   - **D**= the language cluster number.
   - **X**= the main software version number (updated with a major change that is incompatible with previous versions).
   - **Y**= the sub software version number (updated with a minor change that is compatible with previous versions).
3. **EEEEE F.GG.** This is the software identification of the Scaler:
   - **EEEEEE**= the scaler sw cluster
   - **F**= the main sw version no.
   - **GG**= the sub-version no.
4. **SAM.** Indication of the Service Alignment Mode.
5. **Error Buffer.** Shows all errors detected since the last time the buffer was erased. Five errors possible.
6. **Option Bytes.** Used to read-out the option bytes. See "Options" in the Alignments section for a detailed description. Seven codes are possible.
7. **Clear.** Erases the contents of the error buffer. Select the CLEAR menu item and press the MENU RIGHT key. The content of the error buffer is cleared.
8. **Options.** Used to set the option bits. See "Options" in the Alignments section for a detailed description.
9. **Tuner.** Used to align the tuner. See "Tuner" in the Alignments section for a detailed description.
10. **White Tone.** Used to align the white tone. See "White Tone" in the Alignments section for a detailed description.
11. **Audio.** No audio alignment is necessary for this television set.
12. **NVM Editor.** Can be used to change the NVM data in the television set. See table "NVM data" further on.

13. **SC NVM Editor.** Can be used to edit Scaler NVM.
14. **ComPair.** Can be used to switch on the television to In System Programming (ISP) mode, for software uploading via ComPair.
    Caution: When this mode is selected without ComPair connected, the TV will be blocked. Remove the AC power to reset the TV.

How to Navigate

- In SAM, select menu items with the MENU UP/DOWN keys on the remote control transmitter. The selected item will be indicated. When not all menu items fit on the screen, use the MENU UP/DOWN keys to display the next / previous menu items.
- With the MENU LEFT/RIGHT keys, it is possible to:
  - Activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected submenu.
- In SAM, when you press the MENU button twice, the set will switch to the normal user menus (with the SAM mode still active in the background). To return to the SAM menu press the MENU button.
- When you press the MENU key in while in a submenu, you will return to the previous menu.
- On the TV, press and hold the VOLUME DOWN and press the CHANNEL DOWN for a few seconds, to switch from SAM to SDM and reverse; or press the following key sequence on the remote control transmitter: "**062596**" directly followed by the MENU button to switch to SDM (do not allow the display to time out between entries while keying the sequence).

How to Store SAM Settings

To store the settings changed in SAM mode, leave the top level SAM menu by using the POWER button on the remote control transmitter or the television set.

How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set.
If you turn the television set "off" by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SAM when mains is re-applied, and the error buffer is not cleared.

5.2.3 Customer Service Mode (CSM)

Purpose

The Customer Service Mode shows error codes and information on the TV's operation settings. The call centre can instruct the customer (by telephone) to enter CSM in order to identify the status of the set. This helps the call centre to diagnose problems and failures in the TV set before making a service call.
The CSM is a read-only mode; therefore, modifications are not possible in this mode.

How to Enter

To enter CSM, press the following key sequence on the remote control transmitter: "**123654**" (do not allow the display to time out between entries while keying the sequence).

Upon entering the Customer Service Mode, the following screen will appear:

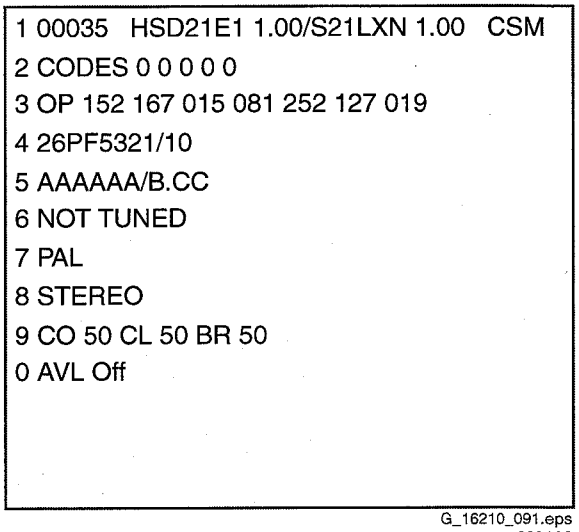

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Figure 5-5 CSM menu

Menu Explanation

1. Indication of the decimal value of the operation hours counter, Main/Scaler software version (see "Service Alignment Mode" for an explanation), and the service mode (CSM = Customer Service Mode).
2. Displays the last five errors detected in the error code buffer.
3. Displays the option bytes.
4. Displays the type number version of the set.
5. **aaaaaa / b.ccc** Firmware identification of the Pacific 3 and the OTC:
   - **aaaaaa** = the firmware version of the Pacific 3 (Pixel+)
   - **b.ccc** = the firmware version of the OTC (for the 1000 page TXT decoder).
6. Indicates the television is receiving an "IDENT" signal on the selected source. If no "IDENT" signal is detected, the display will read "NOT TUNED".
7. Displays the detected Colour system (e.g. PAL/NTSC).
8. Displays the detected Audio (e.g. stereo/mono).
9. Displays the picture setting information.
10. Displays the sound setting information.

How to Exit

To exit CSM, use one of the following methods:

- Press the MENU button twice, or POWER button on the remote control transmitter.
- Press the POWER button on the television set.

5.3 Problems and Solving Tips Related to CSM

5.3.1 Picture Problems

Note: The problems described below are all related to the TV settings. The procedures used to change the value (or status) of the different settings are described.

Picture too Dark or too Bright

If:

- The picture improves when you press the SMART PICTURE button on the remote control transmitter, or
- The picture improves when you enter the Customer Service Mode,

Then:

1. Press the SMART PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to select the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select BRIGHTNESS.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the value of the selected parameter.
7. Use the MENU UP/DOWN keys to select STORE.
8. Press the MENU RIGHT key to store the new value.
9. Press the MENU key to exit the PERSONAL picture mode.

White Line around Picture Elements and Text

If:
The picture improves after you have pressed the SMART PICTURE button on the remote control transmitter,

Then:

1. Press the SMART PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to select the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select SHARPNESS.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the value of the selected parameter.
7. Use the MENU UP/DOWN keys to select STORE.
8. Press the MENU RIGHT key to store the new value.
9. Press the MENU key to exit the PERSONAL picture mode.

Snowy Picture

Check CSM line 6. If this line reads "Not Tuned", check the following:

- Antenna not connected. Connect the antenna.
- No antenna signal or bad antenna signal. Connect a proper antenna signal.
- The tuner is faulty (in this case line 2, the Error Buffer line, will contain error number 10). Check the tuner and replace/ repair the tuner if necessary.

Black and White Picture

If:

- The picture improves after you have pressed the SMART PICTURE button on the remote control transmitter,

Then:

1. Press the SMART PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to select the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select COLOUR.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the value of the selected parameter.
7. Use the MENU UP/DOWN keys to select STORE.
8. Press the MENU RIGHT key to store the new value.
9. Press the MENU key to exit the PERSONAL picture mode.

5.4 Service Tools

5.4.1 ComPair

Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
2. ComPair allows very detailed diagnostics (on I^2C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I^2C commands yourself because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the Force/SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial (or RS-232) cable.
For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector(s).

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- Automatically (by communicating with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I^2C/UART level. ComPair can access the I^2C/UART bus of the television. ComPair can send and receive I^2C/UART commands to the micro controller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I^2C/UART buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the micro controller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions *(e.g. Does the screen give a picture? Click on the correct answer: YES / NO)* and showing you examples *(e.g. Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope)*. You can answer by clicking on a link *(e.g. text or a waveform picture)* that will bring you to the next step in the fault finding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

How to Connect
This is described in the chassis fault finding database in ComPair.

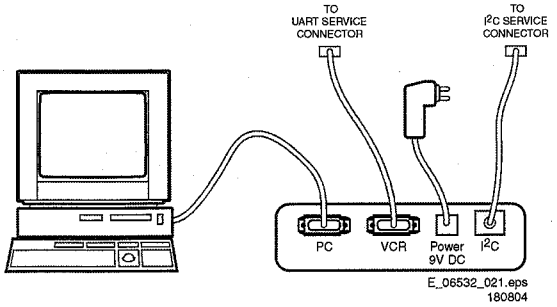


Figure 5-6 ComPair interface connection

How to Order
- ComPair order codes (EU/AP/LATAM):
- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (update): 3122 785 60070 (year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 60080 (year 2002), 3122 785 60120 (year 2003), 3122 785 60130 (year 2004).
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer (non-UK): 4822 727 21632.
- Transformer (UK): 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

Note: If you encounter any problems, contact your local support desk.

5.4.2 LVDS Tool

Introduction
This service tool (also called "ComPair Assistant 1") may help you to identify, in case the TV does not show any picture, whether the Small Signal Board (SSB) **or** the display of a Flat TV is defective.
Furthermore it is possible to program EPLDs with this tool (Byte blaster). Read the user manual for an explanation of this feature.

Since 2004, the LVDS output connectors in our Flat TV models are standardised (with some exceptions). With the two delivered LVDS interface cables (31p and 20p) you can cover most chassis (in special cases, an extra cable will be offered).

When operating, the tool will show a small (scaled) picture on a VGA monitor. Due to a limited memory capacity, it is not possible to increase the size when processing high-resolution LVDS signals (> 1280x960). Below this resolution, or when a DVI monitor is used, the displayed picture will be full size.

Generally this tool is intended to determine if the SSB is working or not. Thus to determine if LVDS, RGB, and sync signals are okay.

How to Connect
Connections are explained in the user manual, which is packed with the tool.

Note: To use the LVDS tool, you must have ComPair release 2004-1 (or later) on your PC (engine version >= 2.2.05).
For every TV type number and screen size, one must choose the proper settings via ComPair. The ComPair file will be updated regularly with new introduced chassis information.

How to Order
- LVDS tool (incl. two LVDS cables: 31p and 20p): 3122 785 90671.
- LVDS tool Service Manual: 3122 785 00810.
- LVDS cable 30p (for LC4.3): 3122 785 90821 (available soon).
- LVDS cable 41p -> 31p for HD PDPs (dual -> single LVDS): 3122 785 90831 (available soon).

5.5 Error Codes

The error code buffer contains all errors detected since the last time the buffer was erased. The buffer is written from left to right. When an error occurs that is not yet in the error code buffer, it is displayed at the left side and all other errors shift one position to the right.

5.5.1 How to Read the Error Buffer

You can read the error buffer in 3 ways:
- On screen via the SAM (if you have a picture).
  Examples:
  - ERROR: 0 0 0 0 0 : No errors detected
  - ERROR: 6 0 0 0 0 : Error code 6 is the last and only detected error
  - ERROR: 9 6 0 0 0 : Error code 6 was detected first and error code 9 is the last detected (newest) error
- Via the blinking LED procedure (when you have no picture). See "The Blinking LED Procedure".
- Via ComPair.

5.5.2 How to Clear the Error Buffer

The error code buffer is cleared in the following cases:
- By using the CLEAR command in the SAM menu:
  - To enter SAM, press the following key sequence on the remote control transmitter: "**062596**" directly followed by the OSD/i+ button (do not allow the display to time out between entries while keying the sequence).
  - Make sure the menu item CLEAR is selected. Use the MENU UP/DOWN buttons, if necessary.
  - Press the MENU RIGHT button to clear the error buffer. The text on the right side of the "CLEAR" line will change from "CLEAR?" to "CLEARED"
- If the contents of the error buffer have not changed for 50 hours, the error buffer resets automatically.

Note: If you exit SAM by disconnecting the mains from the television set, the error buffer is not reset.

5.5.3 Error Codes

In case of non-intermittent faults, write down the errors present in the error buffer and clear the error buffer before you begin the repair. This ensures that old error codes are no longer present.
If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error and not the actual cause of the problem (for example, a fault in the protection detection circuitry can also lead to a protection).

Table 5-1 Error code overview

Error	Error Description	Check Item	Diagram
0	No Error		
1	Mis-match of TV (Hercules) SW and Scaler SW	Software versions	N.A.
2	+12V from PSU error	PSU	A
3	Plasma I^2C error (only for plasma sets)	N.A.	N.A.
4	I^2C error while communicating with the Genesis Scaler	7801	B7 + B8
5	+5V protection	7752	B6
6	General I^2C error; communication between ADC, analogue tuner, and/or Columbus I^2C failed	1102, 7L01, 7M00	B1 + B18 + B19
7	I^2C error while communicating with ADC	7L01	B18
8	I^2C error while communicating with the Scaler EEPROM	7C01	B11
9	I^2C error while communicating with the Hercules EEPROM (NVM for TV). **Remark:** when the Hercules EEPROM is defective, the Hercules should operate with its default values.	7207	B2
10	I^2C error while communicating with the PLL tuner	1102	B1
11	I^2C error while communicating with the 3D combfilter IC-7M00 (Columbus)	7M00	B19
12	I^2C error while communicating with iBoard uP (only iTV sets)	N.A.	N.A.
13	I^2C error while communicating with the HDMI decoder IC-7D03 (only for NAFTA and AP)	N.A.	N.A.
14	Read-write error with the Scaler SDRAM	7B01	B10
15	I^2C error while communicating with the OTC	7001	T
16	I^2C error while communicating with EPLD or Pacific III	7N00	B20 + B21
17	I^2C error while communicating with the Digital Module (only for digital sets)	N.A.	N.A.

5.6 The Blinking LED Procedure

Using this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful when there is no picture.

When the SDM is entered, the front LED will blink the contents of the error-buffer:

- The LED blinks with as many pulses as the error code number, followed by a time period of 1.5 seconds, in which the LED is off.
- Then this sequence is repeated.

Any RC5 command terminates this sequence.

Example of error buffer: **12 9 6 0 0**
After entering SDM, the following occurs:

- 1 long blink of 5 seconds to start the sequence,
- 12 short blinks followed by a pause of 1.5 seconds,
- 9 short blinks followed by a pause of 1.5 seconds,
- 6 short blinks followed by a pause of 1.5 seconds,
- 1 long blink of 1.5 seconds to finish the sequence,
- The sequence starts again with 12 short blinks.

5.7 Fault Finding and Repair Tips

Notes:

- It is assumed that the components are mounted correctly with correct values and no bad solder joints.
- Before any fault finding actions, check if the correct options are set.

5.7.1 NVM Editor

In some cases, it can be handy if one directly can change the NVM contents. This can be done with the "NVM Editor" in SAM mode. With this option, single bytes can be changed.

Caution:

- **Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- **Do not change the Scaler NVM settings, as this will hamper the DVI / HDMI functionality of the TV set!**
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.

Table 5-2 NVM editor overview

	Hex	Dec	Description
.ADR	0x000A	10	Existing value
.VAL	0x0000	0	New value
.Store	Store?		

Table 5-3 NVM Default values (option bit settings through NVM Editor in SAM Mode)

Byte Nr.	Bit	Feature/Mode	Description	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
Byte 0 174(dec)	0	QSS (LSB)	Mode of quasi split sound amplifier	1
	1	FMI	Connection of output of QSS amplifier	1
	2	HCO	EHT tracking mode	0
	3	HP2	Synchronization of OSD/Text display	1
	4	FSL	Forced slicing level for vertical sync	1
	5	TFR	DC transfer ratio of luminance signal	1
	6	OSVE	Black current measuring in overscan	0
	7	MVK (MSB)	(For Future Usage, as defined by software)	0
		Total Dec Values		59
		Total Hex Values		3B
Byte 1 175(dec)	0	PSE	PSE	0
	1	OPC	OPC	0
	2	PRIS	PRIS	0
	3	CONTINUOUS FACTORY	Continuous factory mode	1
	4	WHITE PATTERN ON	Last colour pattern status in factory mode	0
	5	SDM MODE	Service default mode on/off	0
	6	SAM MODE	Service Align mode on/off	0
	7	SVMA	Scavem On / Off	0
		Total Dec Values		8
		Total Hex Values		08
Byte 2 176(dec)	0	MUTE STATUS	Mute status	0
	1	TUNER AUTO MODE	Auto mode	1
	2	CABLE MODE	Cable/Antenna mode	0
	3	LAST POWER MODE	Last power status of the set	1
	4	CHILD LOCK MODE	Child lock enabled	0
	5	SURF MODE	Surf mode on/off	0
	6	FACTORY MODE	Factory mode on	1
	7	PSNS	For PAL colour enhancement in ES4	1
		Total Dec Values		202
		Total Hex Values		CA
Byte 3 177(dec)	0	RADIO/TV MODE	Radio mode or TV mode	0
	1	WAKE-UP MODE	WAKE-UP MODE	0
	2	HOTEL MODE	TV in Hotel mode	0
	3	HOTEL KBD LOCK	Keyboard locked	0
	4	HBL	HBL	0
	5	BLS	Blue stretch mode	1
	6	SL	SL	0
	7	CFA0	Comb filter On/Off	0
		Total Dec Values		32
		Total Hex Values		20
Byte 4 178(dec)	0	Signal Strength	Signal Strength Switch in MK2	0
	1	LPG	LPG	0
	2	DVD TRAY LOCK	Lock/Unlock DVD tray	0
	3	SCRSAVER MODE	Screen saver mode	1
	4	BKS	Black Stretch Mode	1
	5	BSD	Black Stretch Depth	1
	6	CRA0	Coring on SVM	1
	7	PIP QSS	PIP QSS	0
		Total Dec Values		120
		Total Hex Values		78
Byte 5 179(dec)	0	FFI	Fast Filter	0
	1	NNR	No red reduction during blue stretch	1
	2	MUS	NTSC matrix	1
	3	GAM	Gamma control	1
	4	CBS	Control sequence of beam current limiting	0
	5	LLB	Low level of beam current limiter	0
	6	DSA	Dynamic skin tone angle area	1
	7	DSK	Dynamic skin tone angle on/ off	0
		Total Dec Values		78
		Total Hex Values		4E

Byte Nr.	Bit	Feature/Mode	Description	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
Byte 6 180(dec)	0	LTI status	LTI last status	0
	1	Inc_Life_Time	Inc_Life_Time	0
	2	PC_Mode	PC_Mode	0
	3	HD_Mode	HD_Mode	0
	4	Tact_Switch	Tact_Switch	0
	5	Set_In_Special_Stby	Set_In_Special_Stby	0
	6	Hotel_OSDDisplay	Hotel_OSDDisplay	0
	7	Hotel_MonitorOut	Hotel_MonitorOut	0
		Total Dec Values		0
		Total Hex Values		00
Byte 7 181(dec)	0	Hotel_IconMode	Hotel_IconMode	0
	1	DBE	DBE	1
	2	SD	SD	0
	3	Set_in_PC_Sleep_Mode	Set_in_PC_Sleep_Mode	0
	4	Reserved	Reserved	1
	5	Reserved	Reserved	0
	6	Reserved	Reserved	0
	7	Reserved	Reserved	0
		Total Dec Values		18
		Total Hex Values		12

5.7.2 Load Default NVM Values

In case a blank NVM is placed or when the NVM content is corrupted, default values can be downloaded into the NVM. (For empty NVM replacement, short the SDM with a jumper and apply the mains voltage. Remember to remove the jumper after the reload is completed). After the default values are downloaded, it will be possible to start up and to start aligning the TV set. This is no longer initiated automatically; to initiate the download the following action has to be performed:

1. Switch "off" the TV set by disconnecting the AC Power plug.
2. Short circuit an SDM jumper (keep short-circuited).
3. Press P+ or Ch+ on the local keyboard (and keep it pressed).
4. Switch on the TV set via the AC Power plug.
5. Keep pressing the P+/Ch+ button until the set has started up and the SDM is shown.

Alternative method:

1. Go to SAM.
2. Select NVM Editor (not SC NVM Editor).
3. Select ADR (address) to 1 (dec).
4. Change the VAL (value) to 170 (dec).
5. Store the value.
6. Disconnect the mains plug and wait for a few seconds.
7. Reconnect the mains plug and wait until the set goes into its standby mode (red LED lights up).
8. Restart the set.

5.7.3 Flash New Scaler Software

When you need to flash new scaler software, follow the instructions in ComPair. Make sure you put the set in one of the Service Modes, SDM/SAM/CSM, before you start flashing. This reduces the risk of the set hanging during the flashing procedure.

5.7.4 Tuner and IF

No Picture in RF Mode, but there is a Noise Raster

1. Check whether picture is present in AV. If not, go to Video processing troubleshooting section.
2. If present, check if the Option settings are correct.
3. Check if all the supply voltages are present (3.3/5/8/12/33 V).
4. Check if the I^2C lines are working correctly (3.3 V).
5. Manually store a known channel and check if there is IF output at Tuner pin 11.
6. Check the tuning DC voltage at pin 2 of the Tuner. The DC voltage should vary according to the frequency/channel being chosen.
7. If the tuning voltage is OK, check the tuner output, pin 11.
8. If it has no output, the Tuner may have a defect. Change the Tuner.

Sound in Picture Problem for L' System (rolling horizontal lines)

1. Check whether AGC L' in SAM mode is set to 0.
2. If yes, align the set to correct value.

Required System is not Selected Correctly

Check whether a Service jumper (#4204 & 4205, 0805 size) is present. If yes, remove it.

5.7.5 Video Processing

No Power

1. Check +12 V and 3V3 at position 1J02.
2. If no supply, first check the connector 1J02.
3. If the connector is correct, check the power supply board.

Power Supply is Correct, but no Green LED

1. Check if the connectors 1K00 are properly inserted.
2. If they are inserted correctly, check if the 3V3 is present.

No Picture Display (blank screen with correct sound output)

1. Check whether the user menu is visible.
2. If the user menu is OK, activate teletext mode.
3. If teletext is OK, the problem is in the ADC (B18) & Columbus 3D combfilter (B19), if present (depending on model, see also paragraph "Teletext Path" in chapter 9).
4. If the user menu is not visible, check if the LCD panel backlight is ON.
5. If the backlight is OFF, the problem is in the power supply board or LCD panel. Also check pin 12 (LAMP_ON_OFF) of 1J02. It should be HIGH during normal operation.

Note: For fault finding purposes, it is important to know the following: in Pixel Plus and Digital Crystal Clear models, which have an ADC (B18) and Columbus 3D combfilter (B19), the digital input of the scaler is used for the digital video path (Hercules output), whereas the analogue RGB input (analogue

input of the scaler) is only used for teletext. This means that no mixed mode (video plus teletext simultaneously) is possible. If there is sound and teletext, but no video and user menu (blank screen), the digital path (Hercules - ADC - Columbus - Scaler) is faulty. If there is sound but no teletext, the back-end part (Scaler - LCD panel) is faulty. In Crystal Clear models, which do not have an ADC and Columbus, the RGB path (analogue input of scaler) is used for both video and teletext.

No TV, but PC is Present

1. Check if Hsync_SDTV and Vsync_SDTV are present at pin 1 & pin13 of 7E03.
2. If they are present, check teletext output.
3. If there is no teletext output, the IC TDA150xx may be defect.

5.7.6 Power Supply

Check Fuse

The power supply (various models are used) contains one fuse near the AC input connector X002.

1. Check with power supply in "off" state by means of ohmic measurement.
2. Fuse X102 may open in case of severe lightning strikes and/or failures in the power supply.
3. Check the standby signal at pin 10 of X200. ON is HIGH, OFF is LOW. During standby mode only the 3V3 is present at pin 10.

Protections Concept on Power Supply Board (two models)

1. **12 V output (pin 8 of X200):** Short-circuit protected by 2.5 A fuse X610. Over-voltage protection when output voltage is more than 40% above nominal value.
2. **Vaudio output (+18 or +24 V, depending on power supply model used); (pin 1 of X200):** Short-circuit proof (+18 V version has 2.5 A fuse X660). Over voltage protection when output voltage is more than 40% above nominal value.
3. **3V3STBY output (pin 3&4 of X200):** Short-circuit proof with auto-restart. Over voltage protection when output voltage is more than 40% above nominal value.
4. **24 V output (for inverter X520 & X530):** Short-circuit proof with auto-restart. Over voltage protection when output voltage is more than 40% above nominal value.

Standby Mode

1. Apply a 12 ohm load resistor of sufficient power rating to all outputs mentioned above (+12 V, +18/ 24 V, +3V3 and +24 V). Connect the STBY pin (pin 10 of X200) to logical "L" (low), i.e. to GND.
2. Over an input voltage range of 90 V_{AC} to 276 V_{AC} only the +3V3 STBY output shall be up.

Normal Mode:

1. Apply a 12 ohm load resistor of sufficient power rating to all outputs mentioned above (+12 V, +18/ 24 V, +3V3 and +24 V). Connect the STBY pin (pin 10 of X200) to logical "H" (high), i.e. to the +3V3 STBY output via a 2,2 k pull up resistor.
2. Over an input voltage range of 90 V_{AC} to 276 V_{AC} all outputs shall be up. The voltage on the +3V3 STBY output shall be 3.3 V over the entire input voltage range. The voltage on the big 400 V capacitor on the power supply should also be 400 V ± 10%.

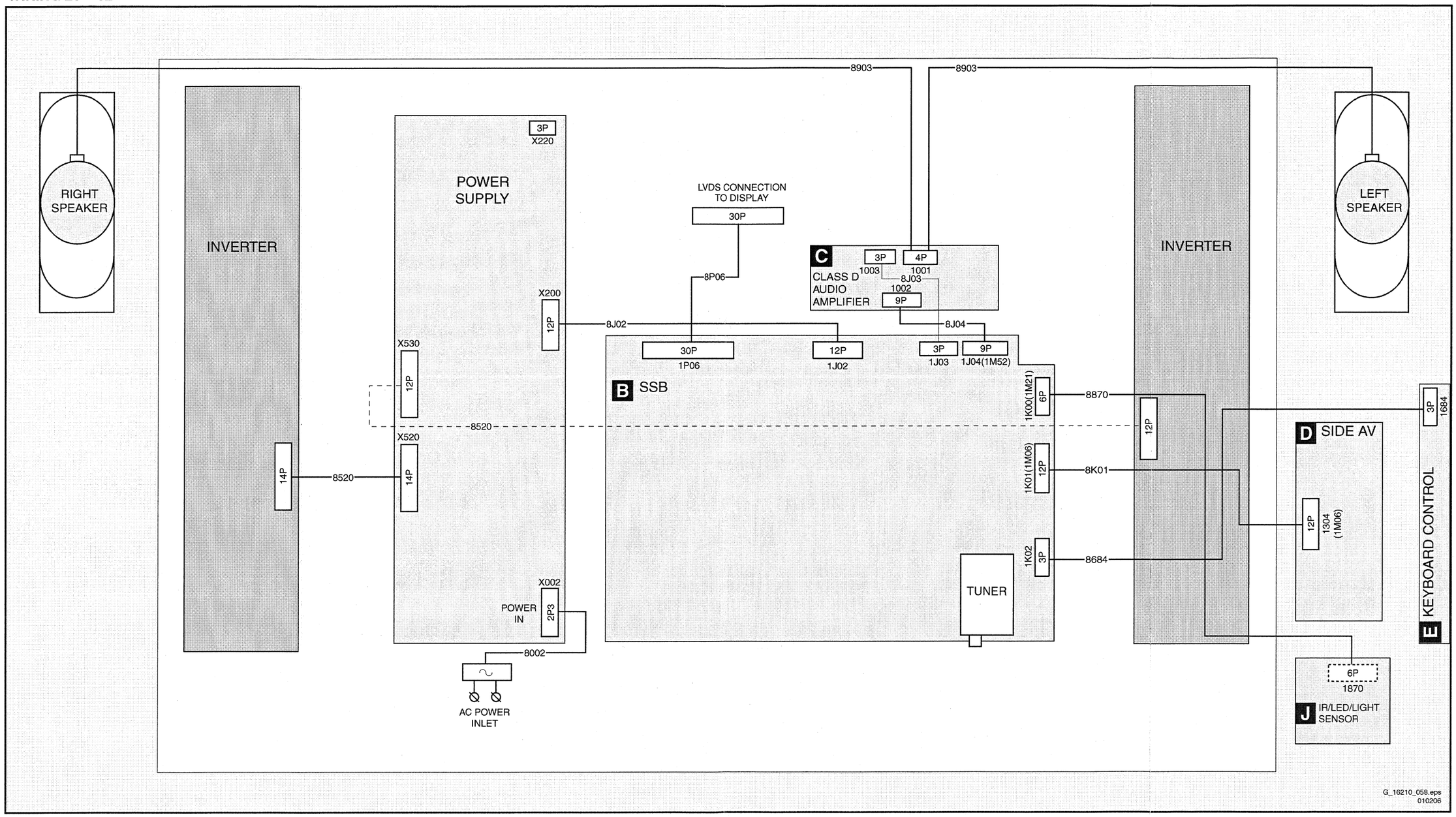
Personal Notes:

E_06532_012.eps
131004

6. Block Diagrams, Test Point Overviews, and Waveforms

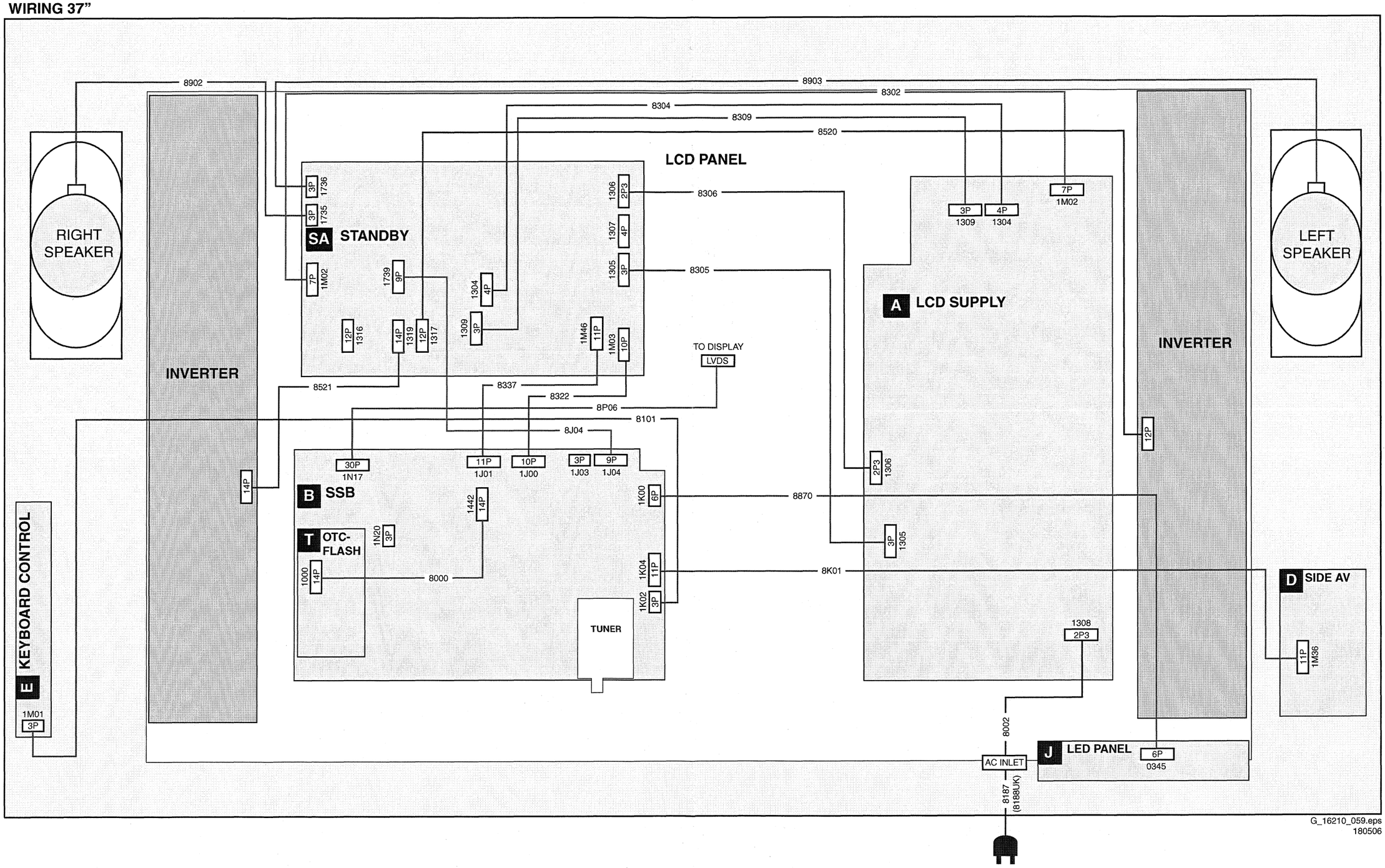
Wiring Diagram 26" & 32"

WIRING 26"- 32"



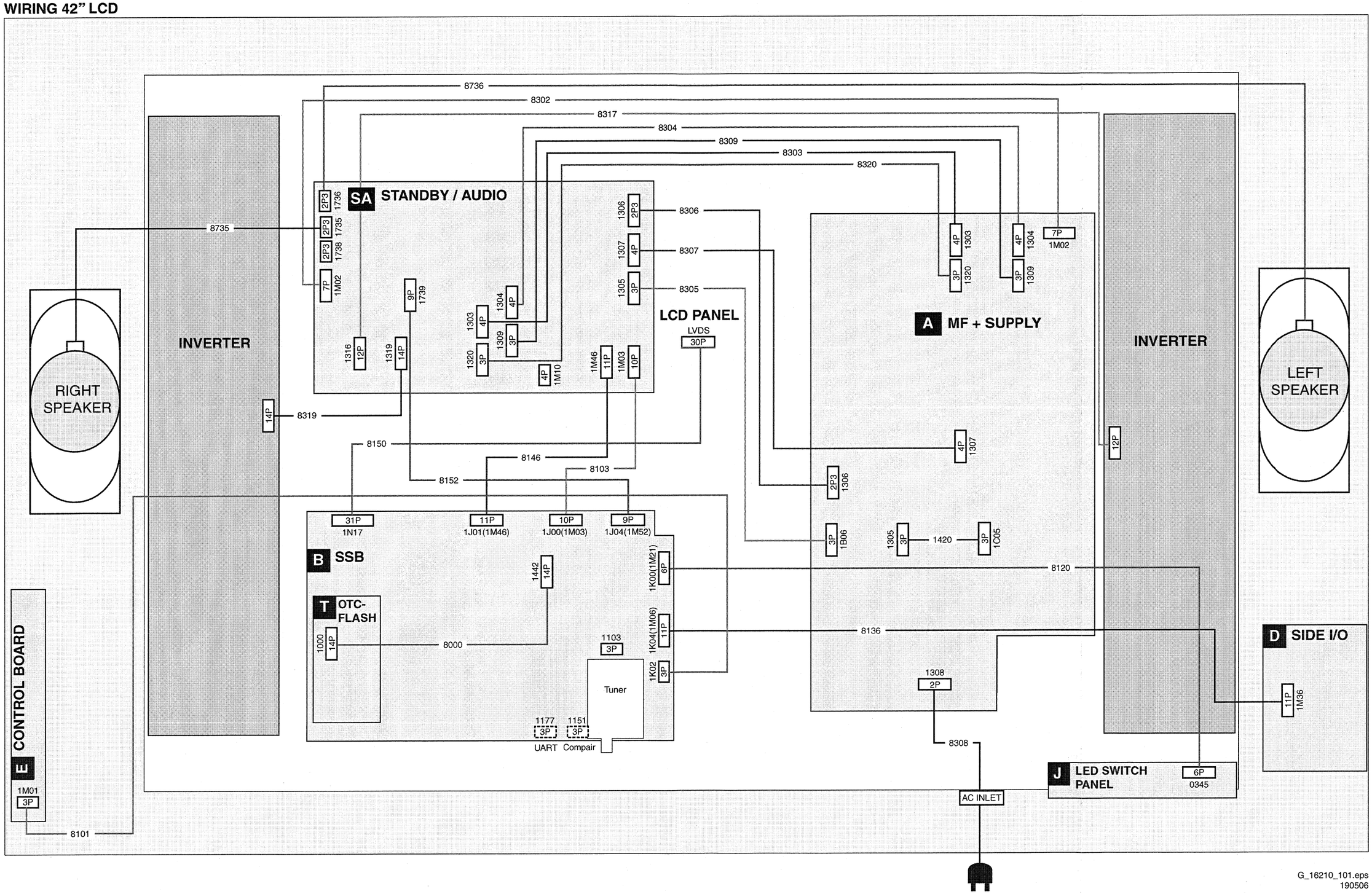
Wiring Diagram 37”

WIRING 37”



Wiring Diagram 42”

WIRING 42” LCD



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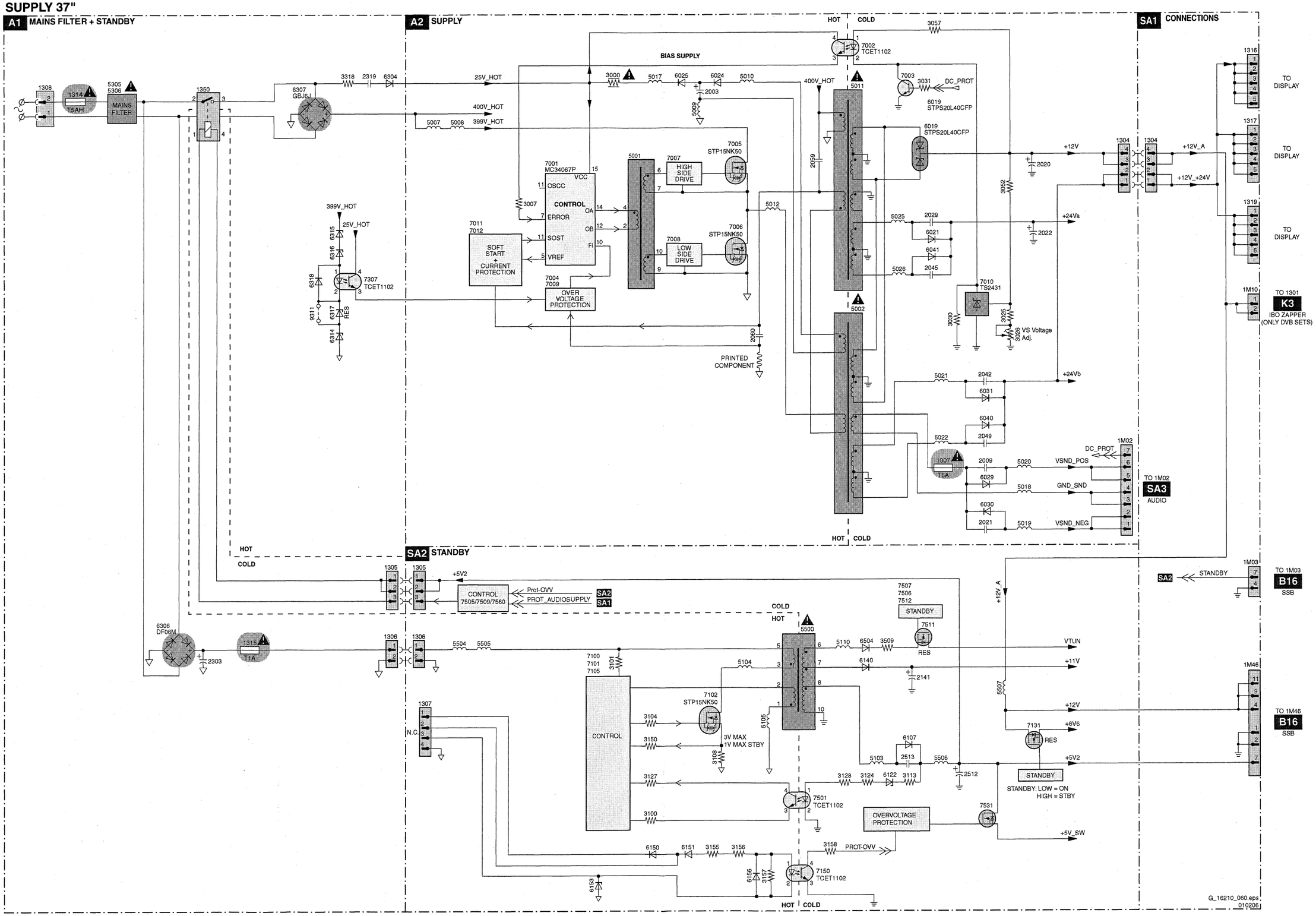
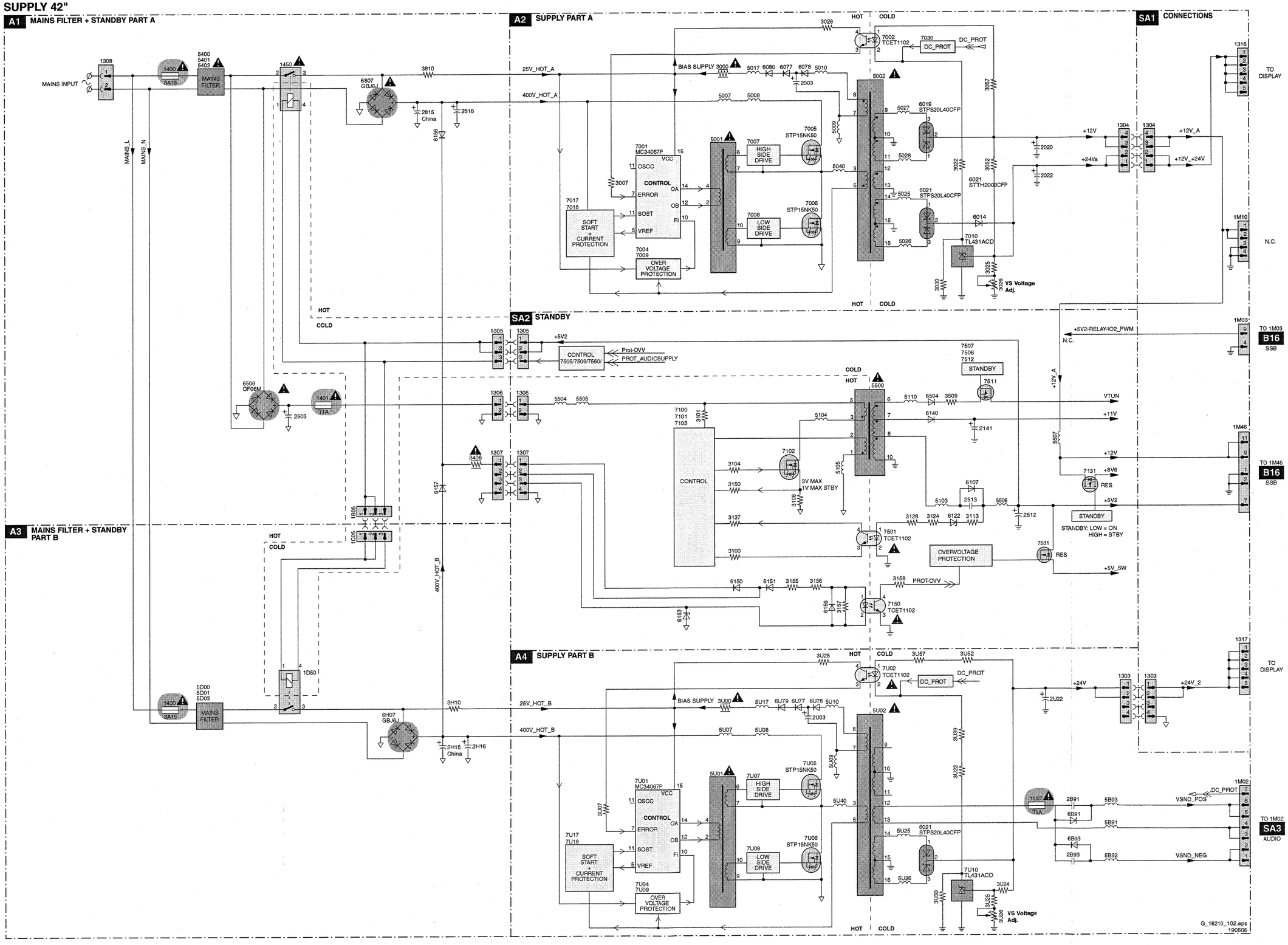
190506

Block Diagram Supply 37”

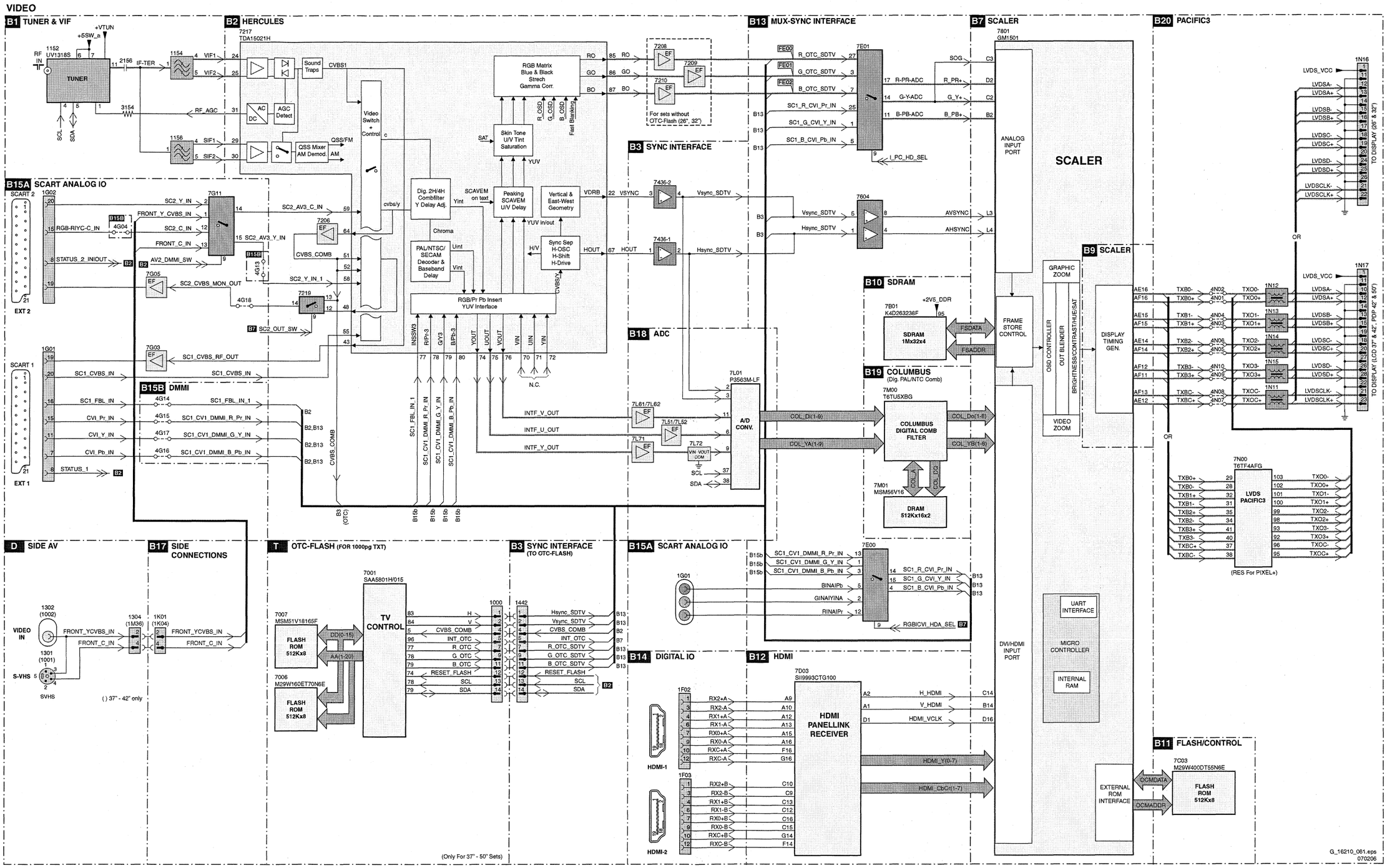


Block Diagram Supply 42”

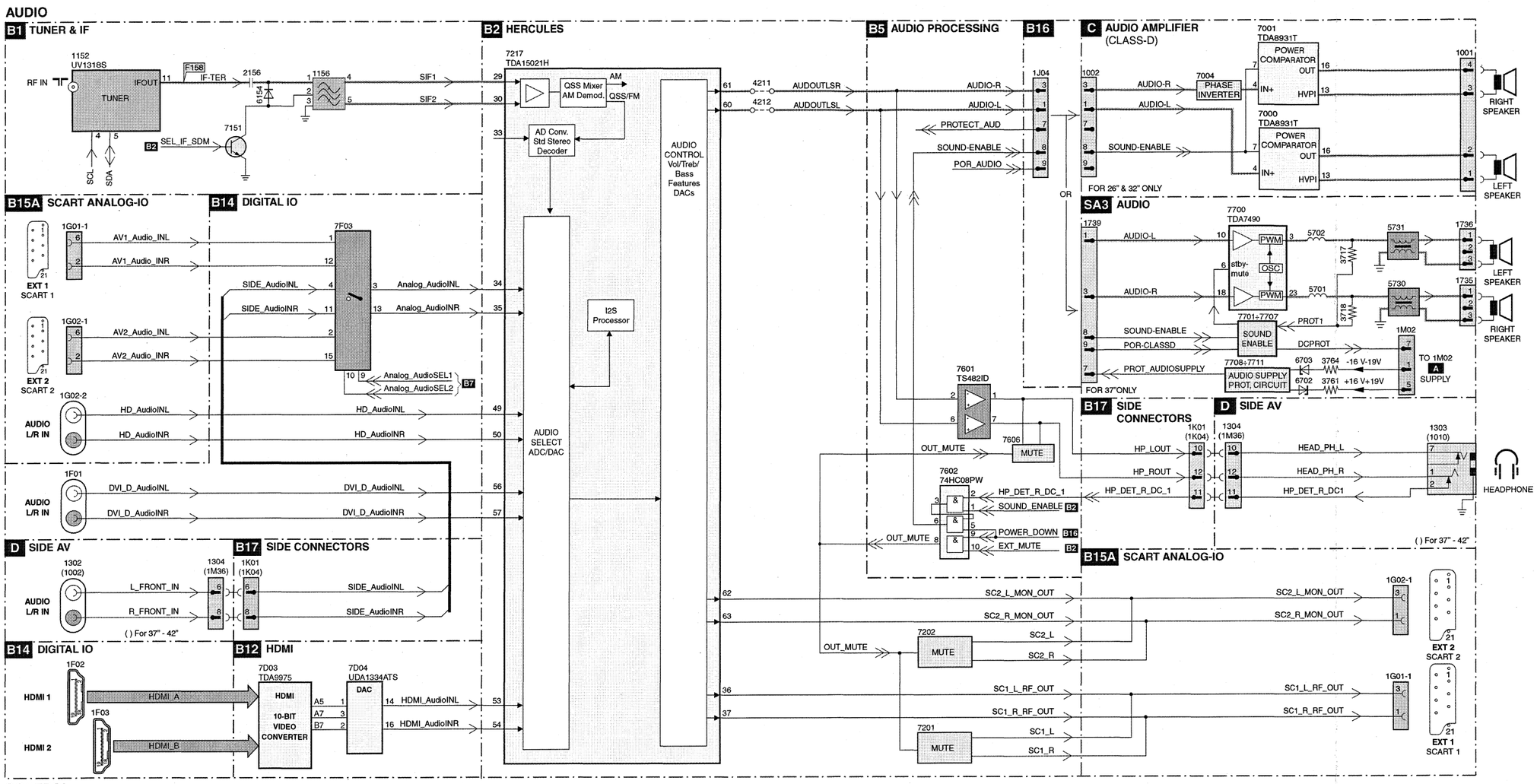
SUPPLY 42"



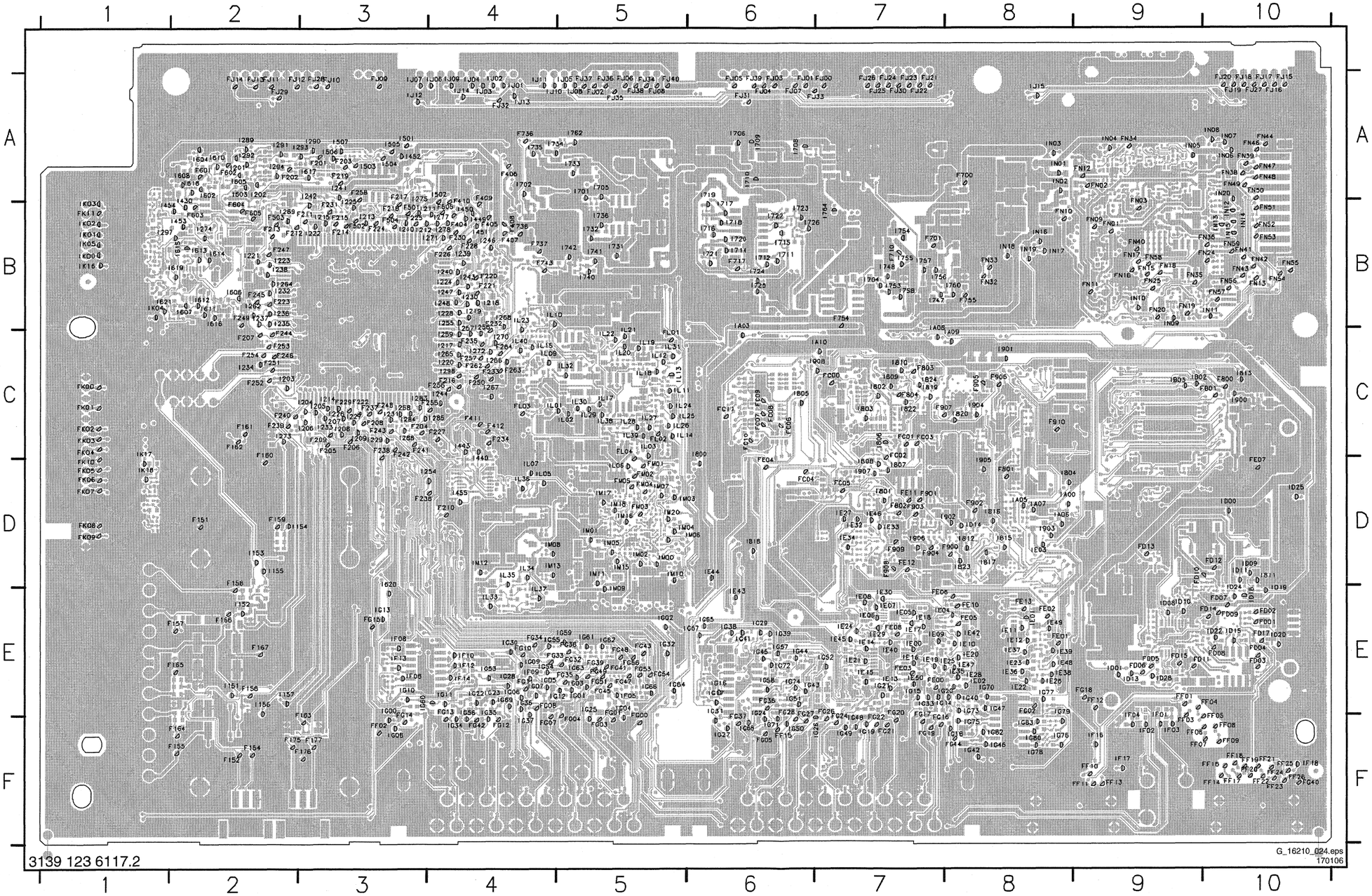
Block Diagram Video



Block Diagram Audio

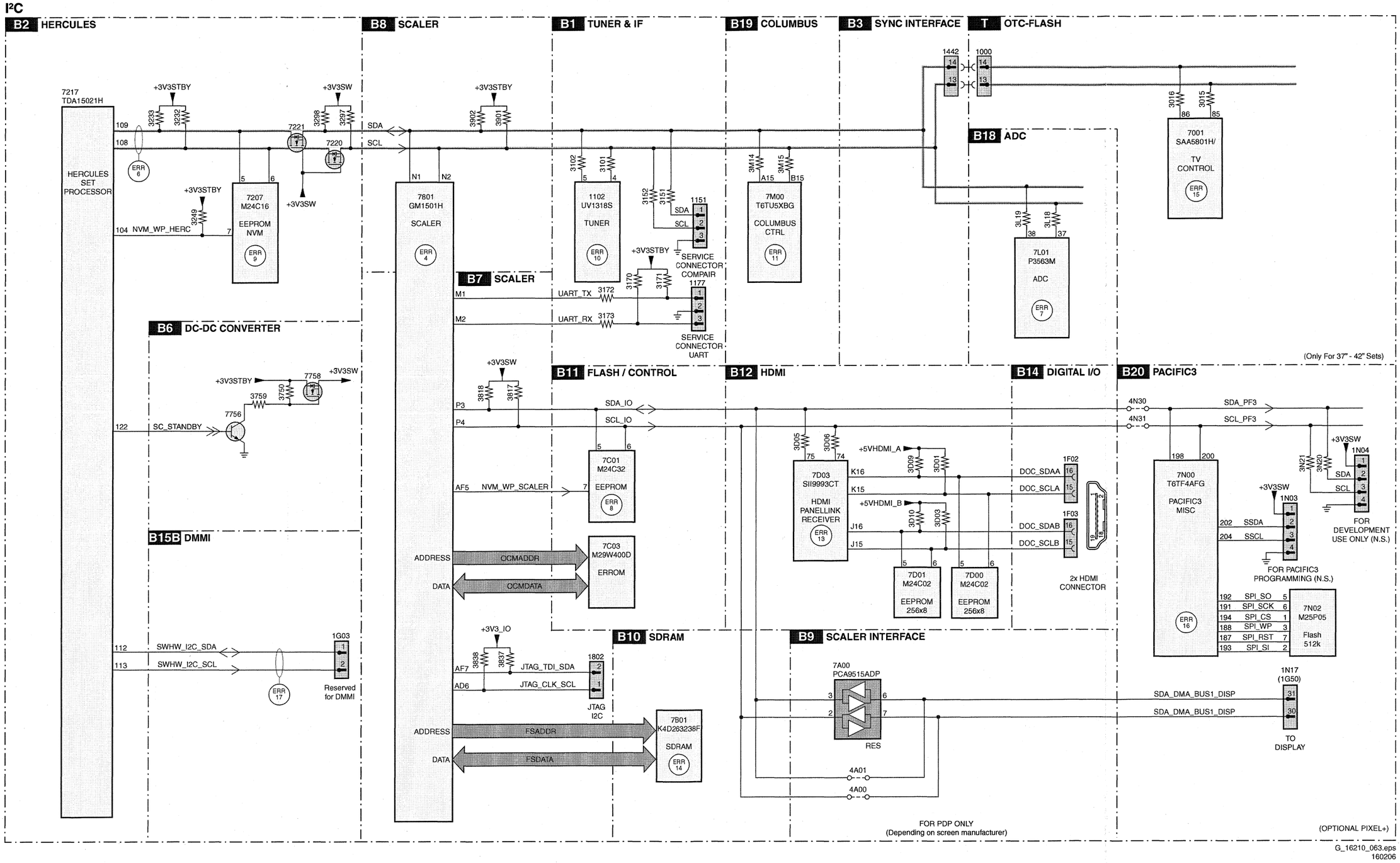


Test Point Overview Small Signal Board



F151 D2	F166 E2	F210 D4	F224 B3	F238 C3	F252 C2	F408 B4	F605 B2	F803 C7	FC00 C7	FD03 E10	FE00 E7	FF02 F3	FF16 F10	FG03 F5	FG19 F7	FG38 E5	FG56 E5	FJ13 A2	FJ27 A10	FK00 C1	FL03 C4	FN13 B10	FN38 A10	FN53 B10	I201 A2	I215 B3	I230 B4	I244 C4	I267 C4	I288 C3	I451 B4	I907 D7	IG12 E5	IL12 C5
F152 F2	F167 E2	F211 B3	F225 B3	F239 C2	F253 C2	F409 A4	F700 A8	F804 C7	FC01 C7	FD04 E10	FE01 E8	FF03 F9	FF17 F10	FG04 F5	FG20 E7	FG39 E5	FJ00 A7	FJ14 A2	FJ28 A3	FK01 C1	FL04 C5	FN15 B9	FN39 A10	FN54 B10	I202 A2	I217 C4	I231 C3	I246 B4	I268 B4	I289 A2	I452 A3	I908 C7	IG13 E3	IL13 C5
F154 F2	F175 F2	F212 B2	F226 B4	F240 C2	F254 C2	F410 B4	F701 B7	F900 D8	FC02 C7	FD05 E9	FE02 E8	FF04 E10	FF18 F10	FG05 F6	FG21 F7	FG40 F10	FJ01 A6	FJ15 A10	FJ29 A2	FK02 C1	FM01 D5	FN16 B9	FN40 B9	FN55 B10	I203 C2	I218 B4	I232 B2	I247 B4	I269 B2	I290 A3	I453 B2	IA00 D8	IG14 E7	IL14 C5
F155 F2	F176 F3	F213 B2	F227 C4	F241 C3	F255 C4	F411 C4	F710 B7	F901 D7	FC03 C7	FD06 E9	FE03 E7	FF05 F10	FF19 F10	FG07 F4	FG22 F7	FG41 E5	FJ02 A5	FJ16 A10	FJ30 A7	FK03 C1	FM02 D5	FN17 B9	FN41 B10	FN56 B10	I204 C3	I219 B4	I233 C3	I248 B4	I270 C4	I291 A2	I455 D4	IA05 D8	IG16 E6	IL17 C5
F156 E2	F177 F3	F214 B3	F228 B4	F242 C3	F256 C4	F412 C4	F717 B6	F902 D8	FC04 D6	FD07 E10	FE04 D6	FF06 F9	FF20 F10	FG08 E4	FG24 F7	FG42 F4	FJ03 A6	FJ17 A10	FJ31 A6	FK04 C1	FM03 D5	FN18 B9	FN42 B10	FN57 B10	I205 C3	I220 C4	I234 C2	I254 D4	I271 B4	I292 A2	I454 B1	IA03 B6	IG15 E7	IL15 C4
F157 E2	F201 A3	F215 B3	F229 C3	F243 C3	F257 C4	F501 B3	F736 A4	F903 D7	FC05 D7	FD08 E10	FE05 E8	FF07 F9	FF21 F10	FG10 E4	FG26 E7	FG43 E5	FJ04 A6	FJ18 A10	FJ32 A4	FK05 D1	FM04 D5	FN19 B9	FN43 B10	FN58 B9	I206 C3	I221 B2	I235 B2	I255 B4	I272 C4	I293 A3	I501 A3	IA06 D8	IG17 E6	IL18 C5
F158 D2	F202 A2	F216 C4	F230 B4	F244 C2	F258 A3	F502 B3	F737 B4	F904 D7	FC06 C6	FD09 E10	FE06 E7	FF08 F10	FF22 F10	FG11 E4	FG27 E6	FG44 F8	FJ05 A6	FJ19 A10	FJ33 A7	FK06 D1	FM05 D5	FN20 B9	FN44 A10	FN59 B10	I207 C3	I222 B3	I236 B2	I256 B4	I273 C2	I294 A2	I502 A4	IA07 D8	IG18 F8	IL19 C5
F159 D2	F203 A3	F217 A3	F231 B3	F245 B2	F262 C4	F503 B2	F738 B4	F905 C8	FC07 C6	FD10 D9	FE07 D10	FF09 F10	FF23 F10	FG12 F4	FG28 E6	FG45 E5	FJ06 A5	FJ20 A10	FJ34 A5	FK07 D1	FN01 B9	FN24 B10	FN46 A10	I151 E2	I208 C3	I223 B2	I237 B2	I257 B4	I274 B2	I297 B1	I503 A3	IA08 B7	IG19 F7	IL20 C5
F160 C2	F204 C3	F218 B3	F232 B4	F246 C2	F263 C4	F504 B3	F743 B4	F906 C8	FC08 C6	FD11 E9	FE08 E7	FF10 F9	FF24 F10	FG13 E4	FG32 E5	FG47 E5	FJ07 A6	FJ21 A7	FJ35 A5	FK08 D1	FN02 A9	FN25 B9	FN47 A10	I152 E2	I209 C3	I224 B4	I238 B2	I258 C3	I275 A3	I298 C4	I504 A3	IA09 C8	IG20 E8	IL21 C5
F161 C2	F205 C3	F219 A3	F233 C4	F247 B2	F264 C4	F505 B4	F754 B7	F907 C7	FC09 C6	FD12 D10	FE10 E8	FF11 E9	FF25 F10	FG14 E3	FG33 E4	FG48 E5	FJ08 A5	FJ22 A7	FJ36 A5	FK09 D1	FN03 B9	FN32 B8	FN48 A10	I153 D2	I210 B3	I225 B3	I239 B4	I259 C4	I277 B4	I430 A2	I505 A3	IA10 C7	IG21 E7	IL22 C5
F162 C2	F206 C3	F220 B4	F234 C4	F248 C3	F404 B4	F601 A2	F755 B8	F908 D7	FC10 C6	FD13 D9	FE11 D7	FF12 E9	FF26 F10	FG15 E3	FG34 E4	FG49 E5	FJ09 A3	FJ23 A7	FJ37 A5	FK10 D1	FN09 B9	FN33 B8	FN49 A10	I154 D3	I211 B3	I226 C3	I240 B4	I262 B2	I278 B4	I440 D4	I506 A3	IB02 C9	IG22 E4	IL23 B4
F163 E3	F207 C2	F221 B4	F235 C4	F249 B2	F405 B4	F602 A2	F800 C10	F909 D7	FC11 C6	FD14 E10	FE12 D8	FF13 F9	FG00 E5	FG16 F7	FG35 E5	FG51 E5	FJ10 A3	FJ24 A7	FJ38 A5	FK11 B1	FN10 B8	FN34 A9	FN50 A10	I155 D2	I212 B3	I227 C3	I241 A3	I264 B2	I283 C3	I443 C4	I507 A3	IB03 C9	IG23 E4	IL24 C5
F164 F2	F208 C3	F222 C3	F236 D3	F250 C4	F406 A4	F603 B2	F801 D8	F910 C8	FD01 E10	FD15 E9	FE13 E8	FF14 F10	FG01 E5	FG17 E7	FG36 E6	FG53 E5	FJ11 A2	FJ25 A7	FJ39 A6	FL01 C5	FN11 B9	FN35 B9	FN51 B10	I156 E2	I213 B3	I228 B4	I242 A3	I265 C4	I284 C3	I449 B4	I602 A2	ID00 D10	IG24 E6	IL25 C5
F165 E2	F209 C3	F223 B2	F237 C3	F251 C2	F407 B4	F604 B2	F802 D7	FB01 C10	FD02 E10	FD17 E10	FF01 E9	FF15 F6	FG02 E8	FG18 E9	FG37 F6	FG54 E5	FJ12 A2	FJ26 A7	FJ40 A5	FL02 C5	FN12 A9	FN36 B10	FN52 B10	I157 E2	I214 C3	I229 C3	I243 B4	I266 C4	I285 C4	I450 B4	I603 A2	ID01 E9	IG25 E5	IL26 C5
																															I604 A2	ID08 E9	IG26 F7	IL27 C5
																															I605 A2	ID09 D10	IG27 F6	IL28 C5
																															I606 B2	ID10 E9	IG28 E4	IL29 C5
																															I607 B2	ID11 D10	IG29 E6	IL30 C5
																															I608 A2	ID13 E9	IG30 E4	IL31 C5
																															I610 A2	ID14 D8	IG31 E6	IL32 C5
																															I611 B2	ID15 E10	IG32 E5	IL33 E4
																															I612 B2	ID18 E10	IG33 E7	IL34 D4
																															I613 B2	ID19 E10	IG34 F4	IL35 D4
																															I614 B2	ID20 E10	IG35 E4	IL36 D4
																															I615 B2	ID22 E10	IG36 E4	IL37 E4
																															I616 B2	ID24 E10	IG37 F4	IL38 C5
																															I617 A3	ID25 D10	IG38 E6	IL39 C5
																															I618 A2	ID28 E9	IG39 E6	IL40 C4
																															I619 B2	IE00 E7	IG40 E8	IM00 D5
																															I620 D3	IE01 E8	IG41 E6	IM01 D5
																															I621 B1	IE02 E8	IG42 F8	IM02 D5
																															I701 A5	IE03 D8	IG43 E6	IM03 D6
																															I702 A4	IE04 E7	IG44 E6	IM04 D5
																															I704 B7	IE05 E7	IG45 E6	IM05 D5
																															I705 A5	IE06 E7	IG46 F8	IM06 D6
																															I706 A6	IE07 E7	IG47 E8	IM07 D5
																															I708 A6	IE08 E7	IG48 F7	IM08 D4
																															I709 A6	IE09 E7	IG49 F7	IM09 E5
																															I710 A6	IE10 E8	IG50 F6	IM10 D5
																															I711 B6	IE11 E8	IG51 E6	IM11 D5
																															I712 B6	IE12 E8	IG52 E7	IM12 D4
																															I714 B6	IE13 E7	IG53 E4	IM13 D4
																															I715 B6	IE14 E7	IG54 E4	IM15 D5
																															I716 B6	IE15 E7	IG55 E4	IM16 D5
																															I717 B6	IE16 E7	IG56 E4	IM17 D5
																															I718 B6	IE17 E7	IG57 E6	IM18 D5
																															I719 A6	IE18 E7	IG58 E6	IM20 D5
																															I720 B6	IE19 E7	IG59 E5	IN01 A8
																															I721 B6	IE20 E8	IG60 E3	IN02 A8
																															I722 B6	IE21 E7	IG61 E5	IN03 A8
																															I723 B6	IE22 E8	IG62 E5	IN04 A9
																															I724 B6	IE23 E8	IG63 E5	IN05 A9
																															I725 B6	IE24 E7	IG64 E5	IN06 A10
																															I726 B6	IE25 E8	IG65 E6	IN07 A10
																															I731 B5	IE26 E8	IG66 E5	IN08 A10
																															I732 B5	IE27 D7	IG67 E6	IN09 B9
																															I733 A5	IE28 E8	IG68 F6	IN10 B9
																															I734 A4	IE29 E7	IG69 E4	IN11 B10
																															I735 A4	IE30 E7	IG70 E8	IN12 B10
																															I736 B5	IE32 D7	IG71 F6	IN13 B10
																															I740 B5	IE33 D7	IG72 E6	IN14 B10
																															I741 B5	IE34 D7	IG73 E8	IN15 B10
																															I742 B5	IE35 E8	IG74 E6	IN16 B8
																															I747 B7	IE36 E8	IG75 F8	IN17 B8
																															I748 B7	IE37 E8	IG76 F8	IN18 B8
																															I753 B7	IE38 E8	IG77 E8	IN19 B8
																															I754 B7	IE39 E8	IG78 F8	IN20 A10
																															I755 B7	IE40 E7	IG79 E8	
																															I756 B7	IE42 E8	IG80 F8	
																															I757 B7	IE43 E6	IG82 F8	
																															I758 B7	IE44 D6	IG83 F8	
																															I760 B8	IE45 E7	IJ01 A4	
																															I762 A5	IE46 D7	IJ02 A4	
																															I764 B7	IE47 E8	IJ03 A4	
																															I800 C6	IE48 E8	IJ04 A4	
																															I801 D7	IE49 E8	IJ05 A5	
																															I802 C7	IE50 E7	IJ06 A4	
																															I803 C7	IF01 E9	IJ07 A3	
																															I804 D8	IF02 F9	IJ08 A5	
																															I805 C6	IF03 F9	IJ09 A4	
																															I806 C7	IF04 F9	IJ10 A4	
																															I807 D7	IF05 E5	IJ11 A4	
																															I808 D7	IF06 E3	IJ12 A3	
																															I809 C7	IF08 E3	IJ13 A4	
																															I810 C7	IF09 E4	IJ14 A4	
																															I811 D10	IF10 E4	IJ15 A8	
																															I812 D8	IF12 E4	IK00 B1	
																															I813 C10	IF13 E3	IK01 B1	
																															I815 D8	IF14 E4	IK02 B1	
																															I816 D8	IF16 F9	IK03 B1	
																															I817 D8	IF17 F9	IK04 B1	
																															I818 D6	IF18 F10	IK05 B1	
																															I819 C7	IG00 E3	IK16 B1	
																															I820 C8	IG01 E5	IK17 C1	
																															I822 C7	IG02 E5	IK18 D1	
																															I823 D8	IG03 E5	IL01 C4	
																															I824 C7	IG04 E5	IL02 C5	
																															I900 C10	IG05 E4	IL03 C5	
																															I901 C8	IG06 E4	IL05 D4	
																															I902 D8	IG07 E4	IL06 D5	
																															I903 D8	IG08 F3	IL07 D4	
																															I904 C8	IG09 E4	IL09 C4	
																															I905 D8	IG10 E3	IL10 B4	
																															I906 D7	IG11 E4	IL11 C5	

I²C Overview



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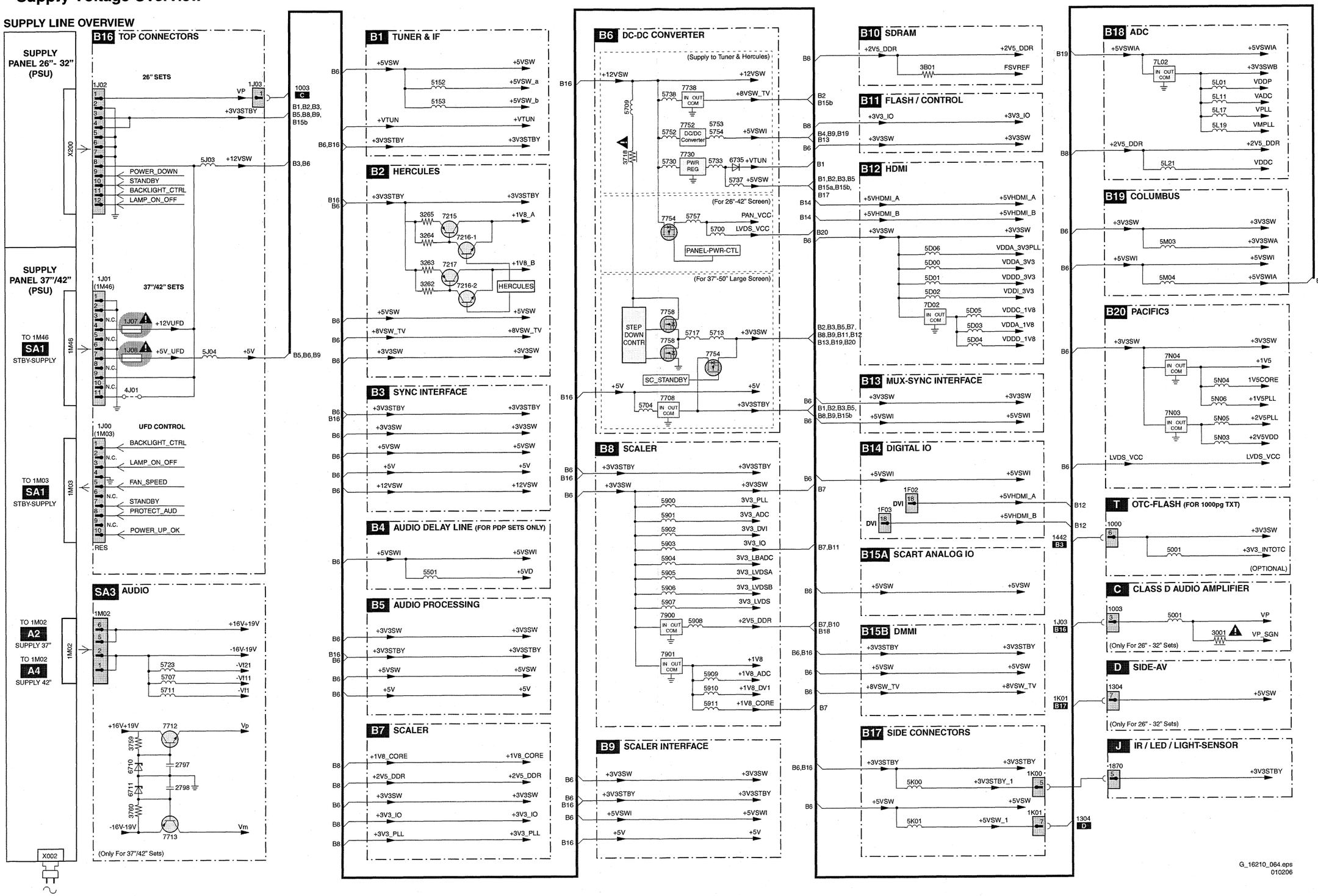
Supply Voltage Overview



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7. Circuit Diagrams and PWB Layouts

LCD Supply (37"): Mains Filter & Standby

1002 D1 1302 B4 1311 E6 2301 C4 2309 F13 2316 D12 2323 C3 2330 F10 3304 B5 3310 B13 3317 D6 3323 E12 5307 D3 6308 E10 6318 B13 7306 E13 9308 D12 9316 G3 F415 D2 F421 E8 I299 E5 I416 D4 I811 C11 I817 D11 I825 E13 I831 C13 I837 E13 I844 C4
1003 C4 1303 C4 1312 E7 2302 D5 2310 D11 2317 C12 2324 C4 2331 F10 3305 C4 3311 F11 3318 C10 3324 E12 5308 D12 6309 E10 6354 C14 7307 B14 9309 C5 F410 C1 F416 D2 F422 F9 I410 C3 I419 D2 I812 C11 I820 F10 I826 F13 I832 C13 I838 F13 I846 C4
1004 G9 1305 G9 1314 C2 2303 E8 2311 C11 2318 E5 2325 D6 3300 C3 3306 B14 3312 E12 3319 D6 5303 D6 6304 B10 6314 C14 6355 B13 9301 D14 9310 E11 F411 C2 F417 D2 F423 F9 I411 C5 I424 E9 I813 C11 I821 B4 I827 D7 I833 B14 I839 E11 I860 F10
1005 B4 1306 G2 1315 F3 2304 D11 2313 F11 2319 B10 2327 B10 3301 C2 3307 F10 3313 F10 3320 D7 5304 F13 6305 B11 6315 A12 6360 E9 9302 C12 9311 C14 F412 C2 F418 D2 F424 F2 I412 C5 I444 D8 I814 E10 I822 E12 I828 B13 I834 C14 I840 E11 I861 E10
1300 E4 1307 E2 1350 D9 2305 F11 2314 F13 2320 D12 2328 E1 3302 D2 3308 C14 3314 F13 3321 F10 5305 C4 6306 D8 6316 B13 6361 E9 9303 D5 9312 F13 F413 C2 F419 D2 F524 C14 I413 C10 I445 C8 I815 F10 I823 E12 I829 B14 I835 B10 I841 F11 I862 D12
1301 E4 1308 C1 2300 C3 2307 E4 2315 C12 2321 C13 2329 E2 3303 E2 3309 E10 3316 D6 3322 E12 5306 C5 6307 C11 6317 C13 7305 E11 9304 F10 9315 E3 F414 C2 F420 D8 I297 D5 I415 D8 I810 C11 I816 F10 I824 E12 I830 A13 I836 B10 I842 F10 I863 E2

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A1 MAINS FILTER + STANDBY

A1

MAINS FILTER

MAINS INPUT
95-264Vac

PTF/65
T5AH 250V(EUR)
T5AH 250V(AP)
T5AH 250V(US)

DMF3547HB60
DMF2405HR0
DTH4203H65

COLD GROUND
GND screw
GNDHOT
GND4
HEATSINK

25V_HOT
399V_HOT
400V_HOT
272V(30V)
271V(297V)
(0V)
5V0

TCET1102(G)
LATCH
A2

G5PA-1-5VDC
GBJ6J
DF06M
AVS1ACP08
AVS10CB

To 1306
5A
Standby Audio

To 1305 To 1306
5A
Standby Audio

3104 313 6082.2

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180106

LCD Supply (37"): Supply

A2 SUPPLY

BIAS SUPPLY

18V6 (0V)

17V4 (0V)

11V3 (0V)

10V2 (0V)

24V5(0V)

13V4

272V(30V)

VS-CONTROLLER

CONTROL

HIGH SIDE DRIVE

LOW SIDE DRIVE

SOFTSTART CONTROL

CURRENT PROTECTION

LATCH

A1

To 1304 SA Standby Audio

To 1309 SA Standby Audio

To 1M02 SA Standby Audio

HOT GROUND HOT

COLD COLD GROUND

3104 313 6082.2

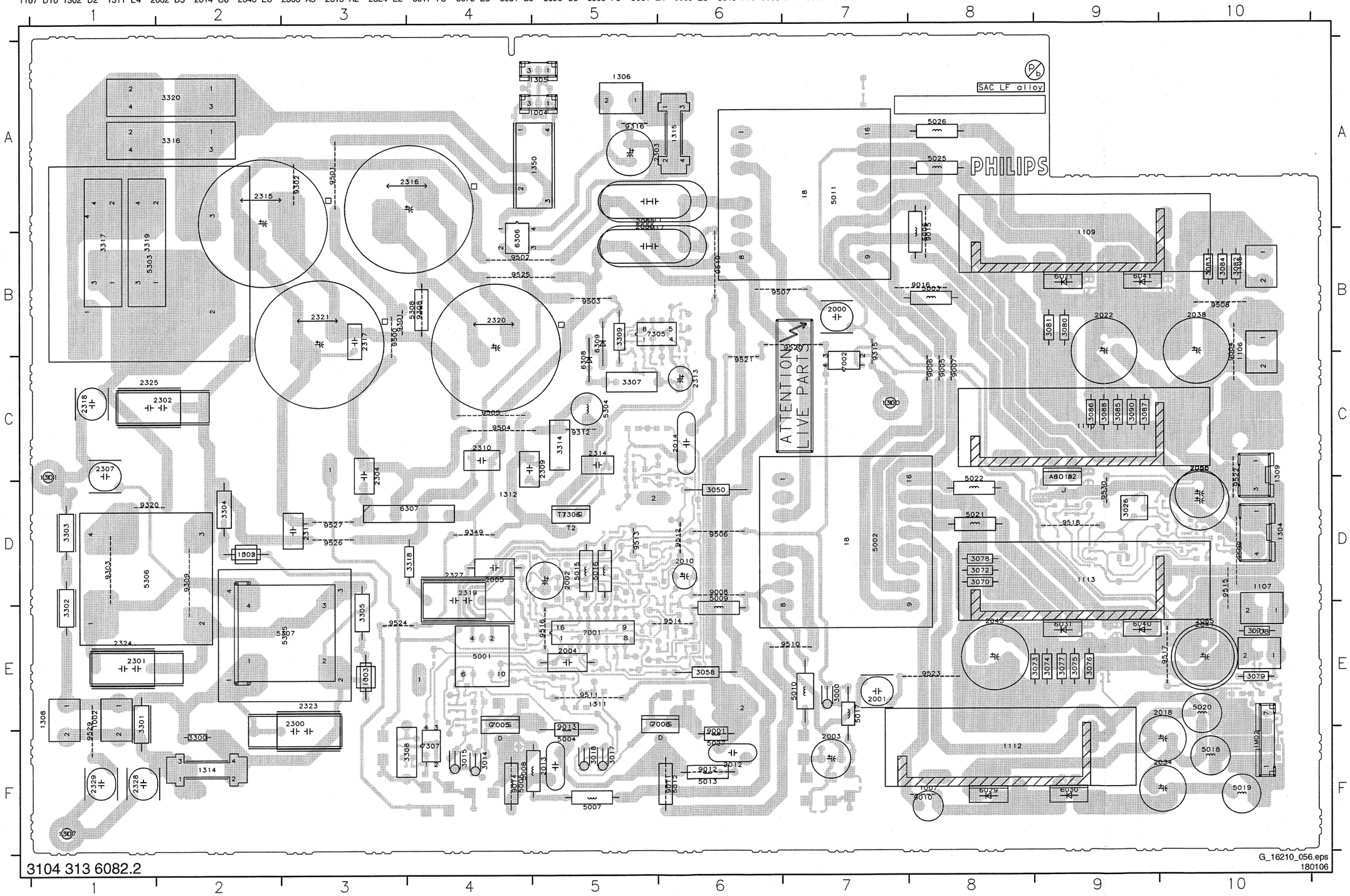
G_16210_055.eps 180106

1007 G11	3035 E5
1105 G7	3036 H4
1106 H7	3037 C12
1107 H7	3038 D13
1108 I7	3039 H3
1109 H9	3040 D13
1110 I10	3041 E13
1112 H10	3042 G3
1113 I9	3043 D1
1304 H8	3044 F2
1309 H8	3045 G5
1M02 H13	3046 F5
2000 A9	3047 H2
2001 G9	3048 D1
2002 B5	3049 E3
2003 A3	3050 E2
2004 C2	3051 F3
2005 D1	3052 C12
2006 C2	3054 F4
2007 E1	3055 I5
2008 G3	3056 I3
2009 H11	3057 B12
2010 H1	3058 E2
2011 E8	3059 C1
2012 E8	3060 H4
2013 C8	3061 E7
2014 F6	3062 C7
2015 F5	3063 C12
2016 D5	3065 B6
2017 C8	3066 H13
2018 H12	3067 H13
2019 H2	3068 A10
2020 D11	3070 A10
2021 I11	3071 A10
2022 E11	3072 A10
2023 B12	3073 A11
2024 D12	3074 A11
2025 D13	3075 A11
2026 G3	3076 A11
2027 E2	3077 A11
2028 C10	3078 A12
2029 E10	3079 A12
2030 E12	3080 A10
2031 C12	3081 A10
2032 D13	3082 A10
2033 D13	3083 A11
2034 H12	3084 A11
2035 E7	3085 A11
2036 C7	3086 A11
2037 H4	3087 A11
2038 E11	3088 A12
2039 C10	3089 H5
2040 C1	3090 A12
2041 G12	3091 D12
2042 G12	3999 A13
2043 G12	5001 C6
2044 D11	5002 F9
2045 E10	5003 C10
2046 I3	5004 C8
2047 I4	5005 C8
2048 I4	5006 D10
2049 G12	5007 A8
2050 F4	5008 B8
2051 H10	5009 B5
2052 D7	5010 A4
2053 D5	5011 D9
2054 C6	5012 D8
2055 D7	5013 D8
2056 B7	5015 C6
2057 C6	5016 D5
2058 C1	5017 A2
2059 C9	5018 H12
2060 E8	5019 I12
2061 C2	5020 H12
2062 D1	5021 G11
2063 F5	5022 G11
2064 D12	5025 E10
2065 G12	5026 E10
2066 D11	5027 E8
3000 A1	6002 D7
3001 F5	6003 C6
3002 C1	6004 D6
3003 C1	6005 D5
3004 D1	6006 I4
3005 C3	6007 C7
3006 D2	6008 D7
3007 E2	6010 G4
3008 E1	6011 F4
3009 E1	6012 E7
3010 H1	6013 C7
3011 H1	6014 H5
3012 F3	6015 G5
3013 G4	6017 I4
3014 C7	6018 E5
3015 C7	6019 C10
3016 C7	6020 E4
3017 D7	6021 E10
3018 E7	6022 H2
3019 E7	6023 E13
3020 E7	6024 A4
3021 G5	6025 A3
3022 C11	6026 H3
3023 D12	6027 C7
3024 D12	6028 E7
3025 E12	6029 H11
3026 E12	6030 H11
3027 G2	6031 G12
3028 G4	6032 A2
3029 C7	6033 A3
3030 E11	6035 C5
3031 C11	6036 C5
3032 C10	6038 D2
3033 H10	6040 G12
3034 E13	6041 E10

Layout LCD Supply (37") (Top Side)

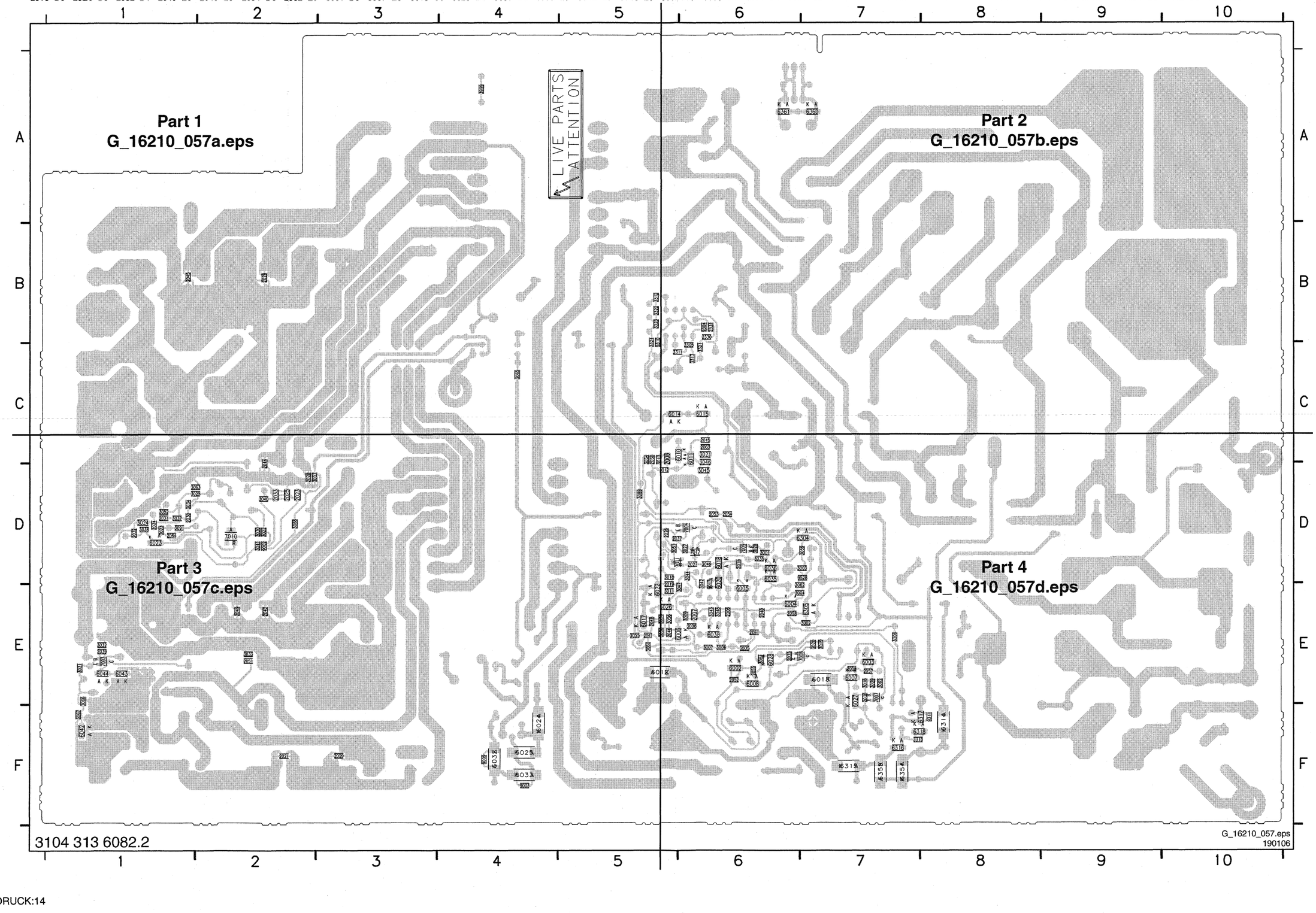
1002	E1	1108	E10	1303	E3	1312	D3	2003	F7	2017	A5	2059	A5	2304	C3	2316	A3	2325	C2	3018	F5	3074	E9	3082	B10	3300	E2	3309	B5	5002	D8
1003	E3	1109	B8	1304	D10	1314	F2	2004	E5	2018	E10	2060	A5	2307	C1	2317	B3	2327	E4	3026	D9	3075	E9	3083	B10	3301	E2	3314	C5	5003	B8
1004	A5	1110	C8	1305	A5	1315	A6	2005	D4	2020	D10	2065	E10	2309	C4	2318	C1	2328	F1	3050	D6	3076	E9	3084	B10	3302	E1	3316	A1	5004	E5
1005	D2	1112	F8	1306	A5	1350	A5	2010	D6	2022	B9	2066	C10	2310	C4	2319	D4	2329	F1	3058	E6	3077	E9	3085	C9	3303	D1	3317	B1	5005	F4
1007	F8	1113	E8	1307	F1	1M02	F10	2011	A5	2034	F10	2300	E3	2311	D2	2320	B5	3000	E7	3070	D8	3078	D8	3086	C9	3304	D2	3318	D4	5006	B7
1105	B10	1300	C7	1308	E1	2000	B7	2012	F6	2038	B10	2301	E2	2313	C6	2321	B3	3014	F4	3071	E10	3079	E10	3087	C9	3305	E3	3319	B2	5007	F5
1106	B10	1301	C1	1309	C10	2001	E7	2013	F5	2041	E10	2302	C2	2314	C5	2323	E3	3015	F4	3072	D8	3080	B9	3088	C9	3307	C5	3320	A1	5008	F4
1107	D10	1302	D2	1311	E4	2002	D5	2014	C6	2043	E8	2303	A5	2315	A2	2324	E2	3017	F5	3073	E8	3081	B9	3090	C9	3308	F3	5001	E4	5009	E6

5010	E7	5019	F10	5304	C5	6030	F9	7001	E5	9004	C10	9013	F5	9309	D2	9502	B5	9510	E7	9518	D9	9526	D3								
5011	A7	5020	E10	5305	E2	6031	E9	7002	B7	9005	C8	9014	F4	9312	C5	9503	B5	9511	E5	9519	B6	9527	D3								
5012	F5	5021	D8	5306	D1	6040	E9	7005	F4	9006	C8	9015	B8	9315	B7	9504	C4	9512	D6	9520	B6	9529	F1								
5013	F6	5022	C8	5307	D3	6041	B9	7006	F5	9007	C8	9016	B8	9316	A5	9505	C4	9513	D5	9521	B6	9530	D9								
5014	F6	5025	A8	5308	B4	6306	B4	7305	B5	9008	D6	9301	B4	9320	D2	9506	D6	9514	E6	9522	C10										
5015	D5	5026	A8	6019	D9	6307	D3	7306	D5	9010	F7	9302	A3	9349	D4	9507	B6	9515	D10	9523	E8										
5016	D5	5027	E6	6021	B9	6308	B5	7307	F4	9011	F6	9303	D1	9500	B3	9508	B10	9516	E5	9524	E3										
5017	E7	5303	A1	6029	F8	6309	B5	9001	F6	9012	F6	9308	B4	9501	A3	9509	D10	9517	E10	9525	B4										

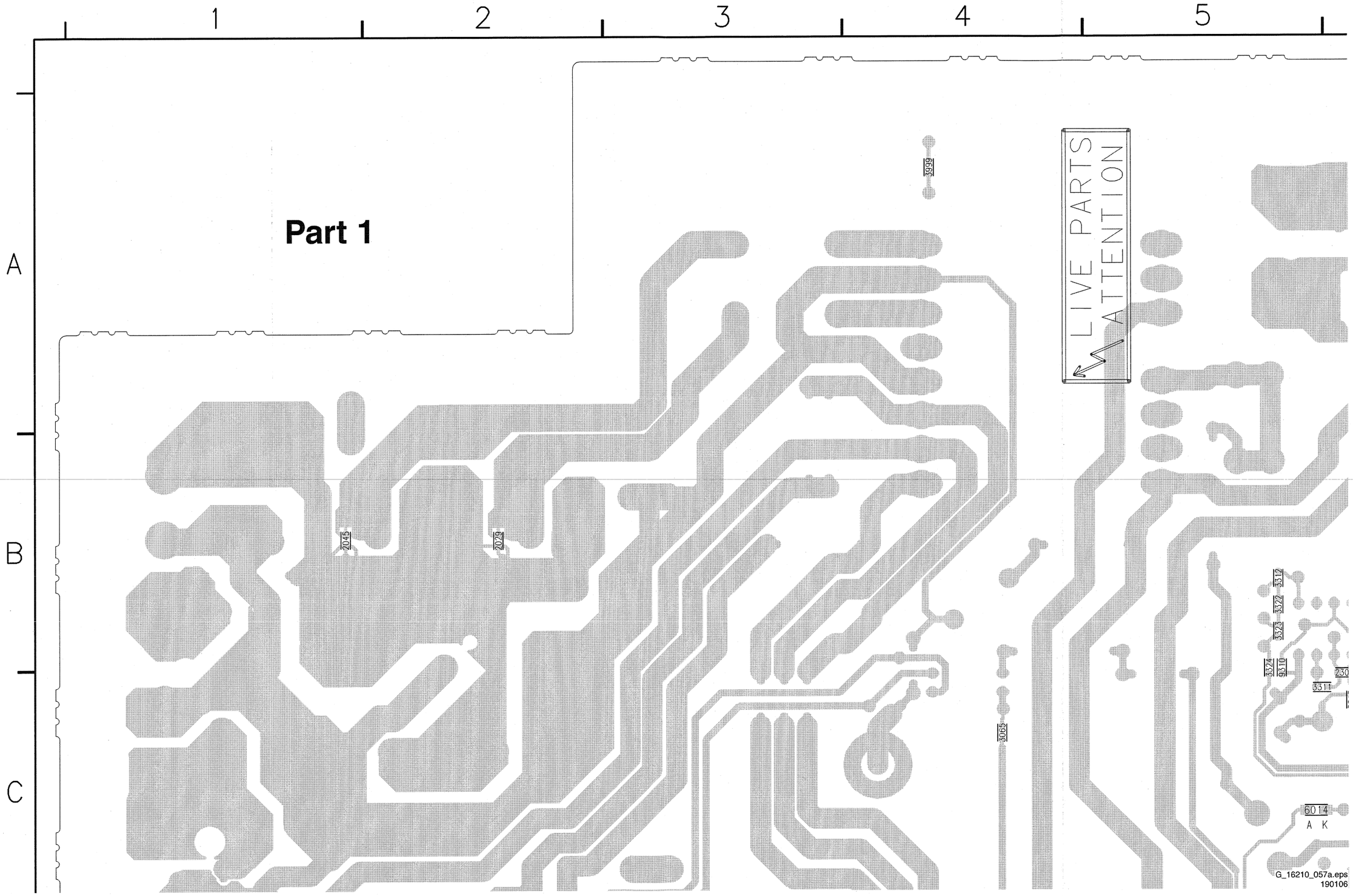


Layout LCD Supply (37") (Overview Bottom Side)

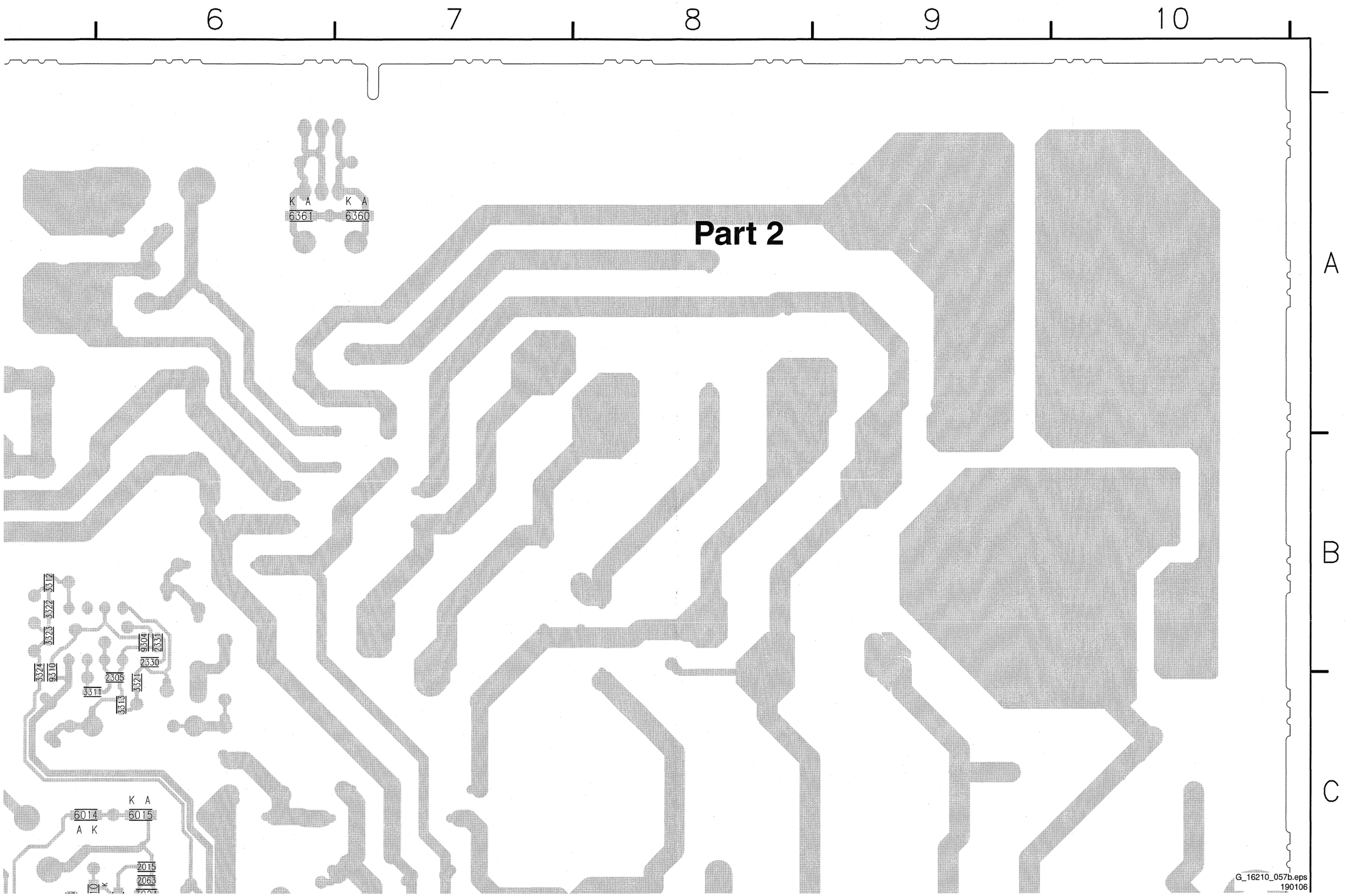
2006 E6 2019 E5 2027 D6 2033 D2 2042 E2 2049 E2 2055 E6 2063 C6 3002 E7 3008 E6 3016 E7 3024 D1 3031 E1 3037 D1 3043 E6 3049 D6 3057 D2 3065 C4 3306 E7 3322 B5 6004 E6 6011 C6 6018 D6 6026 E5 6036 D6 6305 E7 6354 F7 7007 E7 9002 D2 9311 F8
2007 E6 2021 F2 2028 D2 2035 E6 2044 D2 2050 C5 2056 E7 2064 D1 3003 D7 3009 E6 3019 E7 3025 D1 3032 E1 3038 D1 3044 D6 3051 D5 3059 D7 3066 E1 3310 F7 3323 B5 6005 E6 6012 E5 6020 D6 6027 E7 6038 E6 6314 F8 6355 F7 7008 E7 9003 F4 9528 D7
2008 C5 2023 D2 2029 B2 2036 E7 2045 B1 2051 E2 2057 E7 2305 C6 3004 E6 3010 D5 3020 E7 3027 D6 3033 E2 3039 E5 3045 D6 3052 D1 3060 E5 3067 F1 3311 C5 3324 B5 6006 E5 6013 E7 6022 E5 6028 E6 6042 F1 6315 F7 6360 A7 7009 D6 9009 F4
2009 F3 2024 D1 2030 D1 2037 D5 2046 E5 2052 E6 2058 E6 2330 B6 3005 E6 3011 E5 3021 C6 3028 D6 3034 D1 3040 D2 3046 C6 3054 C5 3061 E6 3068 D2 3312 B5 3999 A4 6007 E7 6014 C5 6023 D1 6032 F4 6043 E1 6316 F7 6361 A6 7010 D2 9017 E6
2015 C6 2025 D2 2031 D1 2039 E1 2047 E5 2053 D6 2061 E6 2331 B6 3006 E6 3012 D5 3022 D2 3029 E7 3035 D6 3041 D2 3047 E6 3055 E5 3062 E7 3089 D5 3313 C6 6002 E6 6008 E6 6015 C6 6024 F4 6033 F4 6044 E1 6317 F8 7003 E1 7011 D5 9304 B6
2016 D6 2026 D5 2032 D1 2040 E6 2048 E5 2054 D6 2062 E6 3001 D6 3007 E6 3013 C5 3023 D1 3030 D2 3036 E5 3042 E6 3048 E6 3056 E5 3063 D1 3091 D1 3321 C6 6003 E7 6010 C6 6017 E5 6025 F4 6035 E6 6304 D7 6318 F7 7004 D6 7012 D6 9310 B5



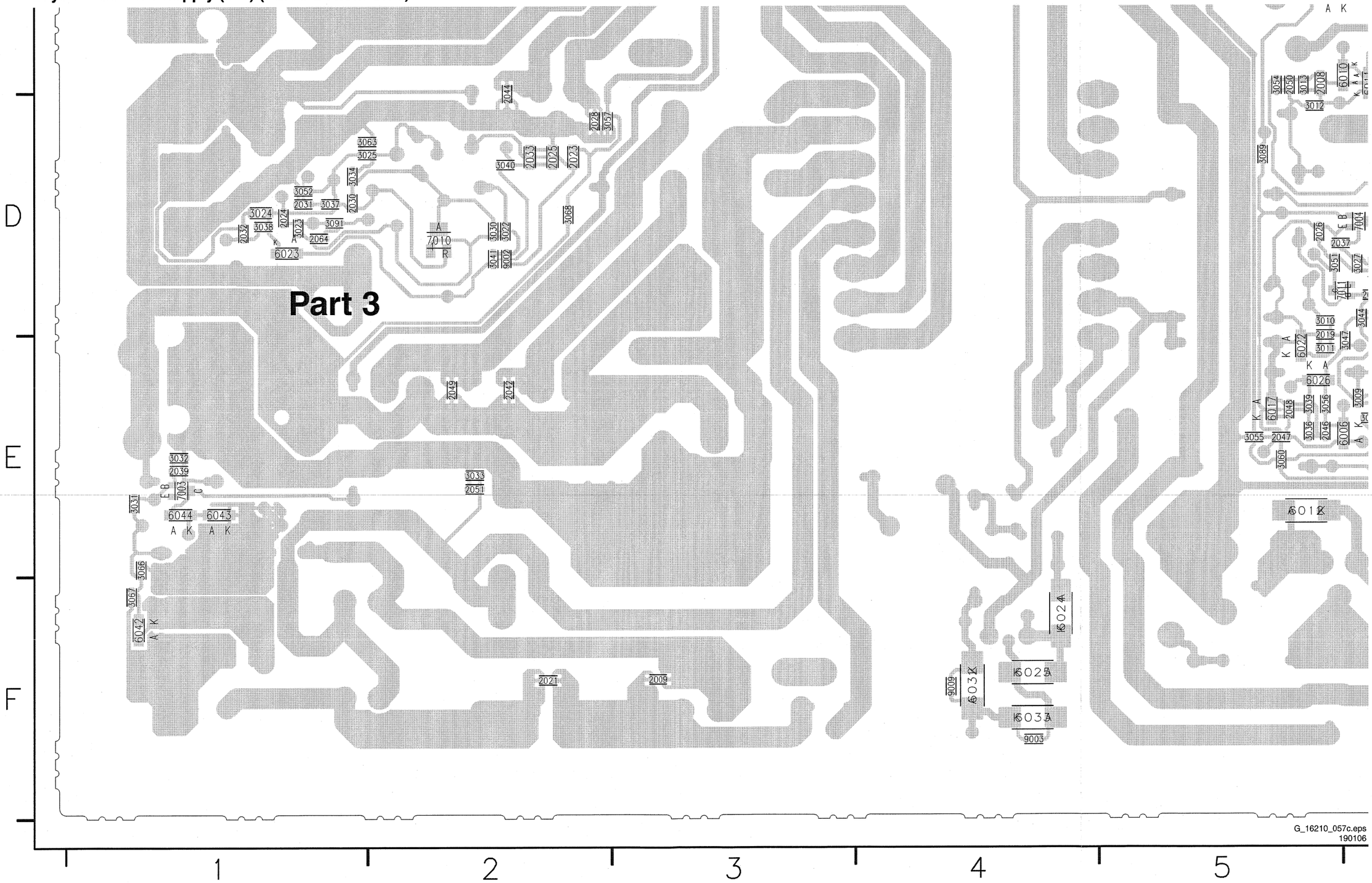
Layout PSU LCD Supply (37") (Part 1 Bottom Side)



Layout PSU LCD Supply (37") (Part 2 Bottom Side)

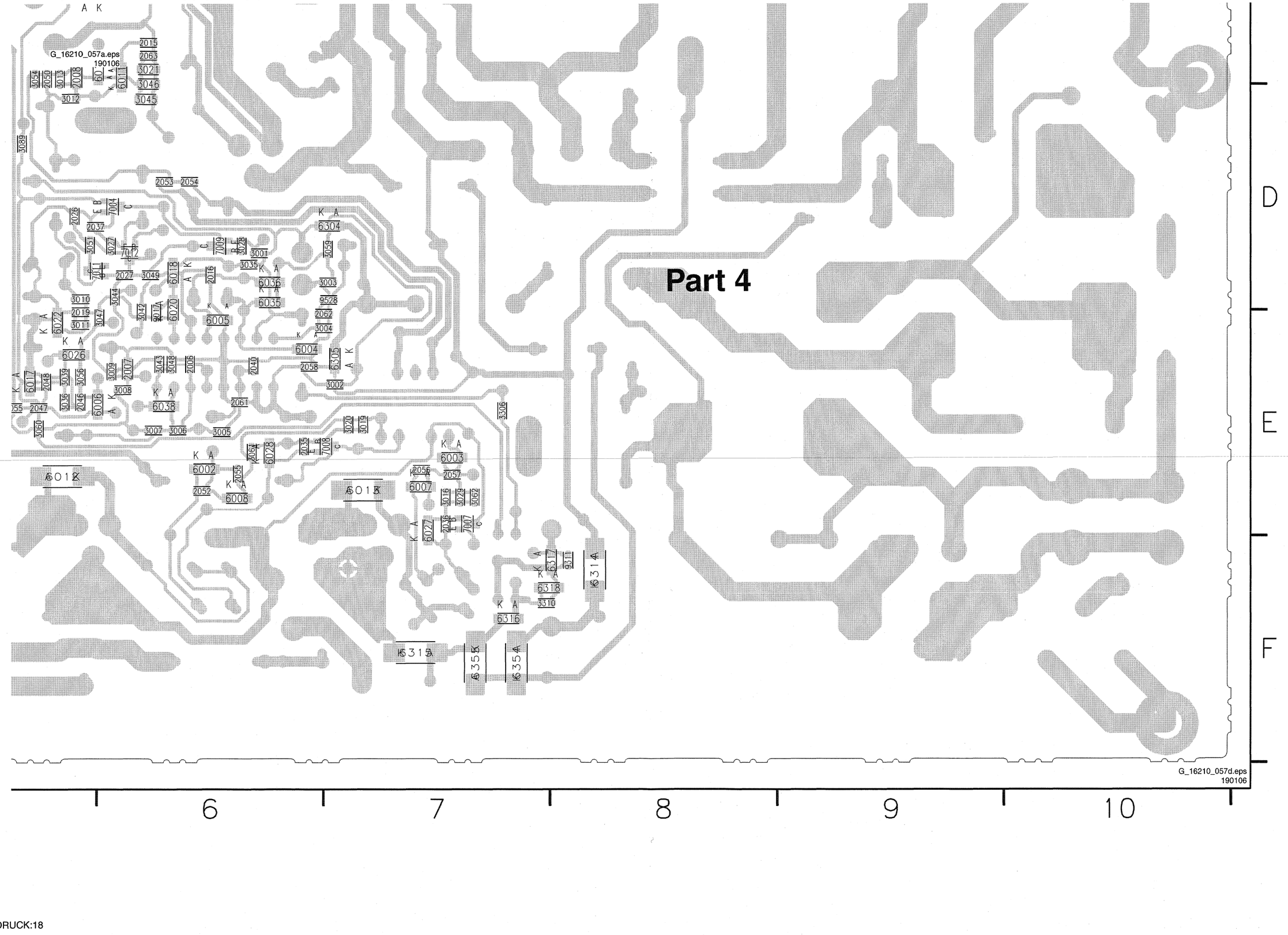


Layout PSU LCD Supply (37") (Part 3 Bottom Side)



G_16210_057c.eps
190106

Layout PSU LCD Supply (37") (Part 4 Bottom Side)



LCD Supply (42"): Mains Filter + Stdby A

A1 MAINS FILTER + STANDBY PART A

MAINS FILTER

MAINS INPUT
95-264Vac

COLD GROUND

TO 1306 SA AUDIO-STANDBY

TO 1305 SA AUDIO-STANDBY

TO A3

TO 1307 SA AUDIO-STANDBY

1000 D2 9812 E11
1001 D4 9813 C12
1011 E5 9814 C12
1305 F7 F410 B1
1306 F2 F411 B2
1307 B13 F412 B1
1308 C1 F413 B1
1400 C2 F414 B2
1401 F2 F415 C1
1402 D4 F416 C1
1403 D4 F417 C2
1450 C8 F418 C1
1B06 E7 F419 C2
2400 C2 F420 B13
2401 C5 F421 B13
2402 C3 F422 B13
2403 C3 F423 C13
2404 C4 F424 E8
2405 D3 F425 E7
2406 C6 F426 B10
2407 C5 F427 F2
2408 C6 F428 F2
2409 C2 F429 F4
2410 C5 F430 F4
2503 E6 I410 C3
2802 E9 I411 C5
2803 C11 I412 B6
2804 C11 I413 C8
2806 F10 I415 C7
2808 E11 I416 C5
2809 E12 I419 D2
2810 E12 I424 D7
2815 C11 I442 C6
2816 D12 I444 C6
2817 C11 I445 C7
3400 C3 I455 D5
3401 C1 I456 E7
3402 C2 I460 D4
3403 D2 I461 B13
3404 D6 I462 C12
3405 D4 I463 D4
3406 B13 I464 D9
3407 C13 I465 E10
3450 B6 I466 E9
3451 B7 I467 E11
3800 E9 I468 E10
3802 E10 I469 E11
3803 E11 I470 E10
3804 E9 I471 D11
3805 E12 I472 C13
3806 E9 I473 D2
3807 E9 I474 C4
3810 B10 I475 C4
5400 C3 I810 B10
5401 C4 I811 B11
5402 C6 I812 B11
5403 B6 I813 C10
5404 B4 I814 E9
5405 B3 I815 E9
5804 E11 I816 E9
6154 C12 I817 C11
6155 C12 I820 F9
6156 B13 I824 E12
6157 B13 I825 E12
6158 C13 I826 E12
6159 C13 I827 E9
6460 D7
6461 D7
6506 E6
6807 C10
6808 E9
6809 D9
7805 D10
7806 E11
9001 B3
9003 C6
9005 B6
9006 B4
9007 C4
9008 C3
9009 F2
9011 B7
9806 E9
9808 C12
9810 D10
9811 D11

F_15420_081.eps
190705

3104 313 3958.3

LCD Supply (42”): Supply A

A2 SUPPLY PART A

BIAS SUPPLY

CONTROL

VS-CONTROLLER

HIGH SIDE DRIVE

LOW SIDE DRIVE

SOFTSTART CONTROL

CURRENT PROTECTION

HOT GROUND | COLD GROUND

TO 1304 5A AUDIO - STBY

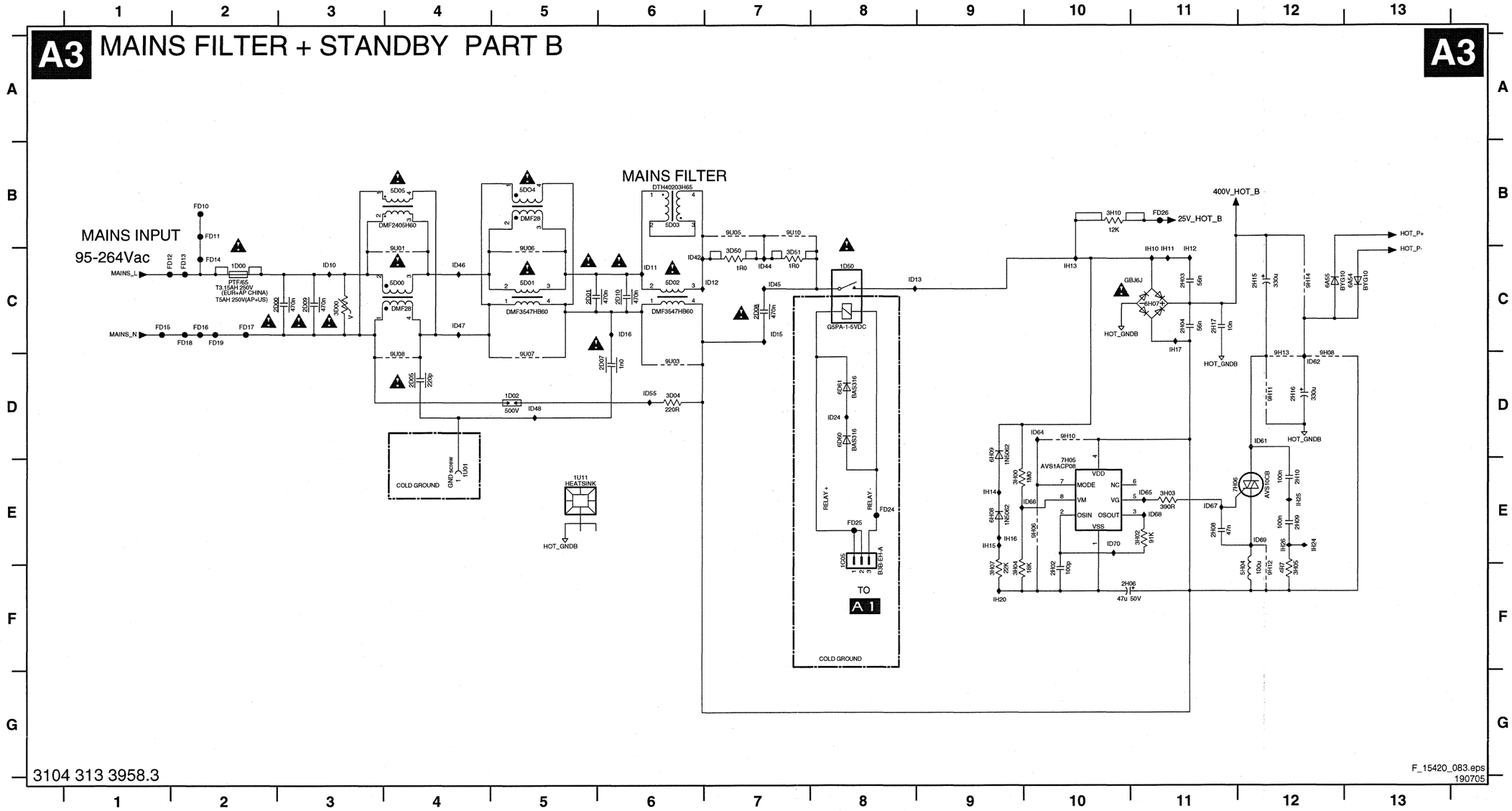
TO 1309 5A AUDIO - STBY

3104 313 3958.3

F_15420_082.eps 190705

LCD Supply (42"): Mains Filter + Stdby B

A3 MAINS FILTER + STANDBY PART B



3104 313 3958.3

F_15420_083.eps
190705

1C05 E8 ID15 C7
1D00 C2 ID16 C6
1D02 D5 ID24 D8
1D03 D5 ID42 C6
1D50 C8 ID44 C7
1U01 E4 ID45 C7
1U11 E5 ID46 C4
2D00 C2 ID47 C4
2D01 C5 ID48 D5
2D03 C4 ID55 D6
2D04 C5 ID61 D12
2D05 D4 ID62 D12
2D06 C6 ID63 D5
2D07 D6 ID64 D10
2D08 C7 ID65 E11
2D09 C3 ID66 E10
2D10 C6 ID67 E11
2H02 F10 ID68 E11
2H03 C11 ID69 E12
2H04 C11 ID70 E10
2H06 F10 IH10 C11
2H08 E11 IH11 C11
2H09 E12 IH12 C11
2H10 E12 IH13 C10
2H15 C12 IH14 E9
2H16 D12 IH15 E9
2H17 C11 IH16 E9
3D00 C3 IH17 C11
3D04 D6 IH20 F9
3D05 D5 IH24 E12
3D50 C7 IH25 E12
3D51 C7 IH26 E12
3H00 E9
3H02 E11
3H03 E11
3H04 F9
3H05 F12
3H07 F9
3H10 B10
5D00 C4
5D01 C5
5D02 C6
5D03 B6
5D05 B4
5DO4 B5
5H04 F12
6A54 C13
6A55 C12
6D60 D8
6D61 D8
6H07 C11
6H08 E9
6H09 D9
7H05 E10
7H06 E11
9H06 E10
9H08 D12
9H10 D10
9H11 D12
9H12 F12
9H13 D12
9H14 C12
9U01 C4
9U03 D6
9U05 B7
9U06 C5
9U07 D5
9U08 D4
9U10 B7
FD10 B2
FD11 B2
FD12 C1
FD13 C2
FD14 C2
FD15 C1
FD16 C2
FD17 C2
FD18 C2
FD19 C2
FD24 E8
FD25 E8
FD26 B11
ID10 C3
ID11 C6
ID12 C7
ID13 C8

LCD Supply (42"): Supply B

A4 SUPPLY PART B

A4

HOT GROUND | COLD GROUND

BIAS SUPPLY

CONTROL

VS-CONTROLLER IU27

7U01 MC34067P

17V (7V6)
5V1 (0V5)
7V3 (0V3)
7V3 (0V3)
0V01 (0V)
0V6 (5V)

2V (0V7)
4V9 (1V2)
4V9 (0V7)
4V9 (0V)

SOFTSTART CONTROL

CURRENT PROTECTION

HIGH SIDE DRIVE

LOW SIDE DRIVE

5U01 S13932-04

7U05 STP15NK50ZFP

7U06 STP15NK50ZFP

399V

400V_HOT_B

25V_HOT_B

+24Vb

17V3

13V4

TCET1102(G)

BC847BW

BC857BW

BYW29EX-200

STTH2003CFP

BS51312-01

MRS25 1%

Vs Voltage Adj.

DC_PROT

VSND_POS

GND_SND

VSND_NEG

TO 1M02
5A
AUDIO - STBY

TO 1303
5A
AUDIO - STBY

TO 1320
5A
AUDIO - STBY

1U09 HEATSINK
1U10 HEATSINK

3104 313 3958.3

F_15420_084.eps
190705

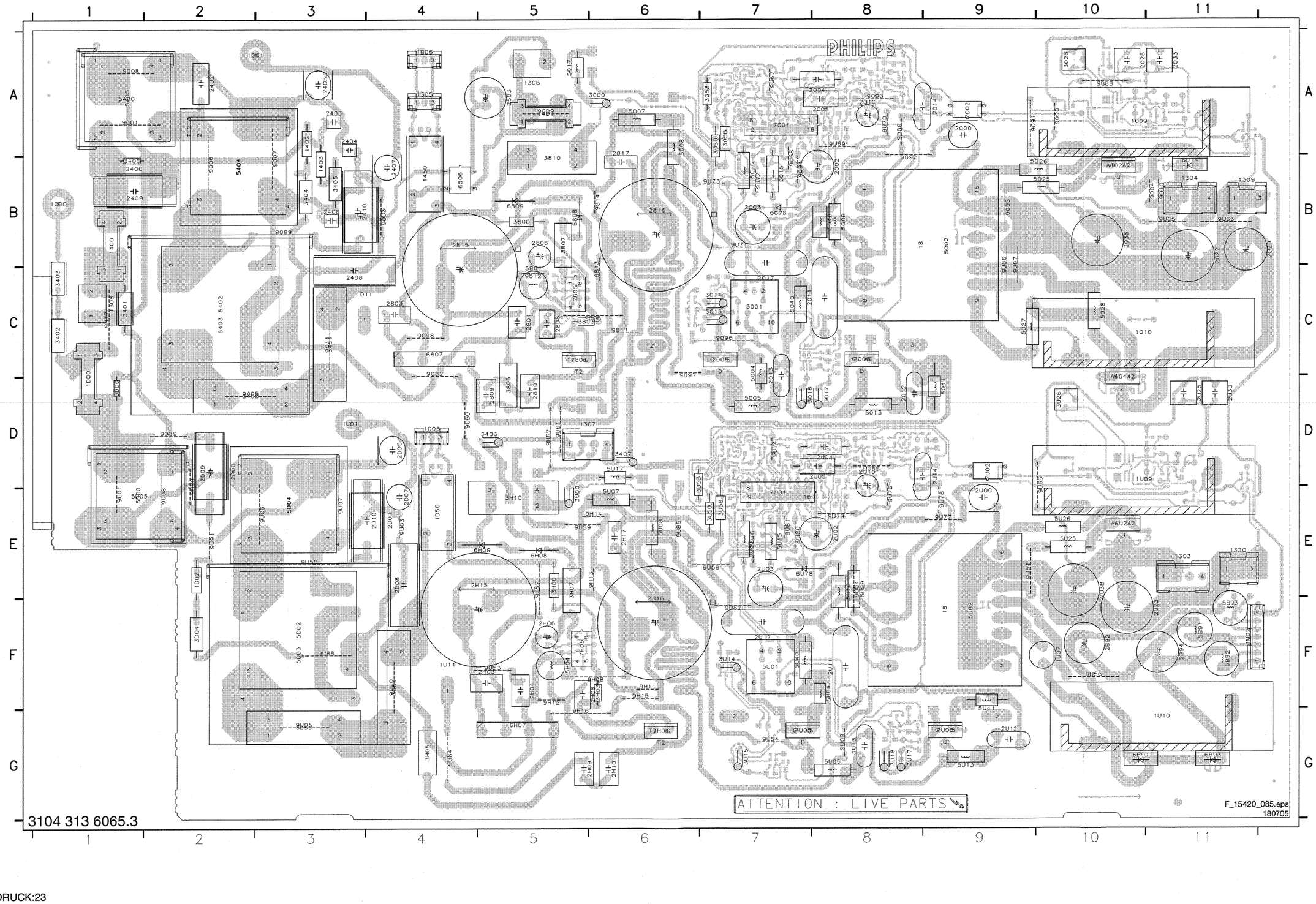
1303 I12	3U70 H4	IA32 I5	
1320 I12	3U71 H5	IA33 I4	
1M02 H14	3U75 G5	IA34 I3	
1U07 G11	3U89 H7	IA35 H3	
1U09 I9	5B91 G13	IA36 H4	
1U10 I10	5B92 H13	IA37 H5	
2B90 G11	5B93 G13	IA38 H5	
2B91 G11	5U01 C7	IA39 G5	
2B92 G12	5U02 D10	IA40 H6	
2B93 H11	5U04 D9	IA42 H1	
2B94 H12	5U05 C9	IA43 G1	
2U00 F10	5U07 B9	IA44 C14	
2U02 B3	5U08 B9	IA45 E8	
2U03 A4	5U09 B5	IA46 B9	
2U04 C2	5U10 A5	IA47 C9	
2U05 D2	5U13 E9	IA48 C7	
2U06 C3	5U15 C7	IA49 C12	
2U07 E2	5U16 D6	IA50 D9	
2U08 G4	5U17 A3	IA51 I5	
2U09 D2	5U25 E11	IB90 G12	
2U10 H2	5U26 F11	IB91 G12	
2U11 E10	5U40 D10	IB92 H11	
2U12 E9	5U41 E9	IB93 H12	
2U13 D9	6B91 G11	IB94 C9	
2U14 F7	6B93 H11	IU05 A4	
2U15 F5	6U01 D3	IU06 B2	
2U16 E6	6U02 D8	IU07 C3	
2U17 D10	6U03 C8	IU08 C3	
2U19 H3	6U04 D7	IU09 D2	
2U21 C2	6U05 D6	IU10 D3	
2U22 E12	6U06 I4	IU12 E5	
2U23 B14	6U07 C8	IU18 E3	
2U24 E13	6U08 D8	IU20 F4	
2U25 E14	6U09 H2	IU21 E2	
2U26 G4	6U10 G5	IU22 F3	
2U27 F3	6U11 F5	IU23 F3	
2U29 E12	6U12 E9	IU24 F4	
2U30 F13	6U13 C9	IU25 F3	
2U32 E14	6U15 H7	IU27 C3	
2U33 E14	6U16 G7	IU28 G2	
2U34 C2	6U17 I5	IU29 G3	
2U38 E12	6U20 H1	IU33 F5	
2U39 C12	6U21 E11	IU34 F6	
2U40 C1	6U22 H3	IU36 F6	
2U45 F12	6U23 F14	IU37 C8	
2U46 I4	6U27 C8	IU38 C8	
2U47 I5	6U28 E8	IU39 D8	
2U48 I5	6U51 H4	IU41 H2	
2U50 E4	6U77 A4	IU42 C8	
2U60 C7	6U78 A5	IU45 C8	
2U61 C8	6U79 A4	IU46 C8	
2U62 D8	6U81 B2	IU51 E8	
2U63 C7	7U01 C4	IU52 D8	
2U64 D7	7U02 B10	IU55 F9	
2U65 D8	7U04 H5	IU57 E9	
2U71 E8	7U05 C9	IU59 E9	
2U72 C8	7U06 D9	IU62 B11	
2U77 H5	7U07 D8	IU63 C11	
3B92 G11	7U08 E8	IU64 C9	
3U00 A3	7U09 G5	IU73 E11	
3U01 F6	7U10 F13	IU74 E11	
3U02 C2	7U17 F4	IU76 F11	
3U03 C1	7U18 G4	IU77 F11	
3U04 D1	7U30 C11	IU79 B9	
3U05 C3	9U02 G13	IU80 G11	
3U06 D3	9U04 B5	IU81 F8	
3U07 E3	FB90 H13	IU82 H7	
3U08 E2	FB92 G13	IU83 H7	
3U09 E2	FB93 G13	IU84 F10	
3U10 H2	FB94 H13	IU85 E13	
3U11 H2	FB95 H13	IU86 D13	
3U12 F4	FB96 G14	IU88 E14	
3U13 G5	FB97 G13	IU89 E13	
3U14 C8	FB98 H13	IU92 F14	
3U15 C8	FC00 F9	IU93 F14	
3U16 C8	FU02 C9	IU94 G13	
3U17 D8	FU03 C6	IU96 A3	
3U18 E8	FU04 D6	IU97 A3	
3U19 E8	FU05 D9	IU98 A5	
3U20 E8	FU06 E6	IU99 A5	
3U21 G6	FU07 F3	cU01 F10	
3U22 D13	FU08 D6	cU02 F9	
3U23 E13	FU09 D7		
3U24 E13	FU10 E6		
3U25 F13	FU12 E13		
3U26 G13	FU14 F13		
3U27 G3	FU17 D12		
3U28 B9	FU18 B9		
3U29 C8	FU23 F9		
3U30 G12	FU24 E13		
3U31 C12	FU25 E13		
3U32 C12	FU27 E12		
3U33 B11	FU28 D12		
3U34 F14	FU29 C10		
3U38 E14	FU30 I12		
3U39 D13	FU32 I12		
3U40 E14	FU99 A9		
3U41 F14	IA00 A5		
3U43 D2	IA01 A5		
3U45 G6	IA03 C1		
3U46 F6	IA04 D2		
3U47 H3	IA05 E3		
3U48 D2	IA07 C7		
3U50 E3	IA08 D7		
3U52 D13	IA09 D8		
3U53 E4	IA10 D9		
3U55 I6	IA11 C9		
3U56 I4	IA12 E9		
3U57 C13	IA13 E9		
3U58 E3	IA14 E10		
3U61 E4	IA20 E13		
3U64 F4	IA21 E14		
3U65 E5	IA22 F14		
3U66 F3	IA23 F11		
3U67 G1	IA24 G11		
3U68 H4	IA31 I6		

Layout LCD Supply (42") (Top Side)

1000	B1	1306	A5	1403	A3	1U01	D3	2004	A8	2020	C11	2403	A3	2503	A5	2816	B6	2D08	E4	2H10	G6	2U05	D7	2U25	D11	3026	A10	3404	B3	3805	C5
1001	A2	1307	D5	1450	B4	1U07	F10	2005	A8	2022	B11	2404	A3	2803	C4	2817	A6	2D09	E2	2H15	E5	2U10	D8	2U33	D11	3050	A7	3405	B3	3807	B5
1009	B10	1308	C1	1B06	A4	1U09	E10	2010	A8	2025	A10	2405	A3	2804	C5	2B92	F10	2D10	E4	2H16	E6	2U11	F8	2U38	E10	3053	A7	3406	D5	3810	B5
1010	C10	1309	B11	1C05	D4	1U10	G10	2011	C7	2033	A11	2406	B3	2806	B5	2B94	F10	2H03	F5	2H17	E6	2U12	G9	3000	A6	3058	A7	3407	D6	3D00	D1
1011	C4	1320	E11	1D00	D1	1U11	G4	2012	D9	2038	B10	2407	B4	2808	C5	2D00	E2	2H04	F5	2U00	E9	2U13	G8	3014	C7	3400	B2	3450	C2	3D04	F2
1303	E11	1400	B1	1D02	F2	2000	A9	2013	C7	2400	B1	2408	C3	2809	D4	2D01	E4	2H06	F5	2U02	E8	2U14	D8	3015	C7	3401	C1	3451	C3	3D50	G2
1304	B11	1401	A5	1D50	E4	2002	B8	2014	A9	2401	B4	2409	B1	2810	D5	2D05	D4	2H08	F5	2U03	E7	2U17	F7	3017	D8	3402	C1	3800	B5	3D51	G4
1305	A4	1402	A3	1M02	F11	2003	B7	2017	B7	2402	A2	2410	B4	2815	B4	2D07	E4	2H09	G5	2U04	D7	2U22	F11	3018	D7	3403	C1	3803	C5	3H00	E5

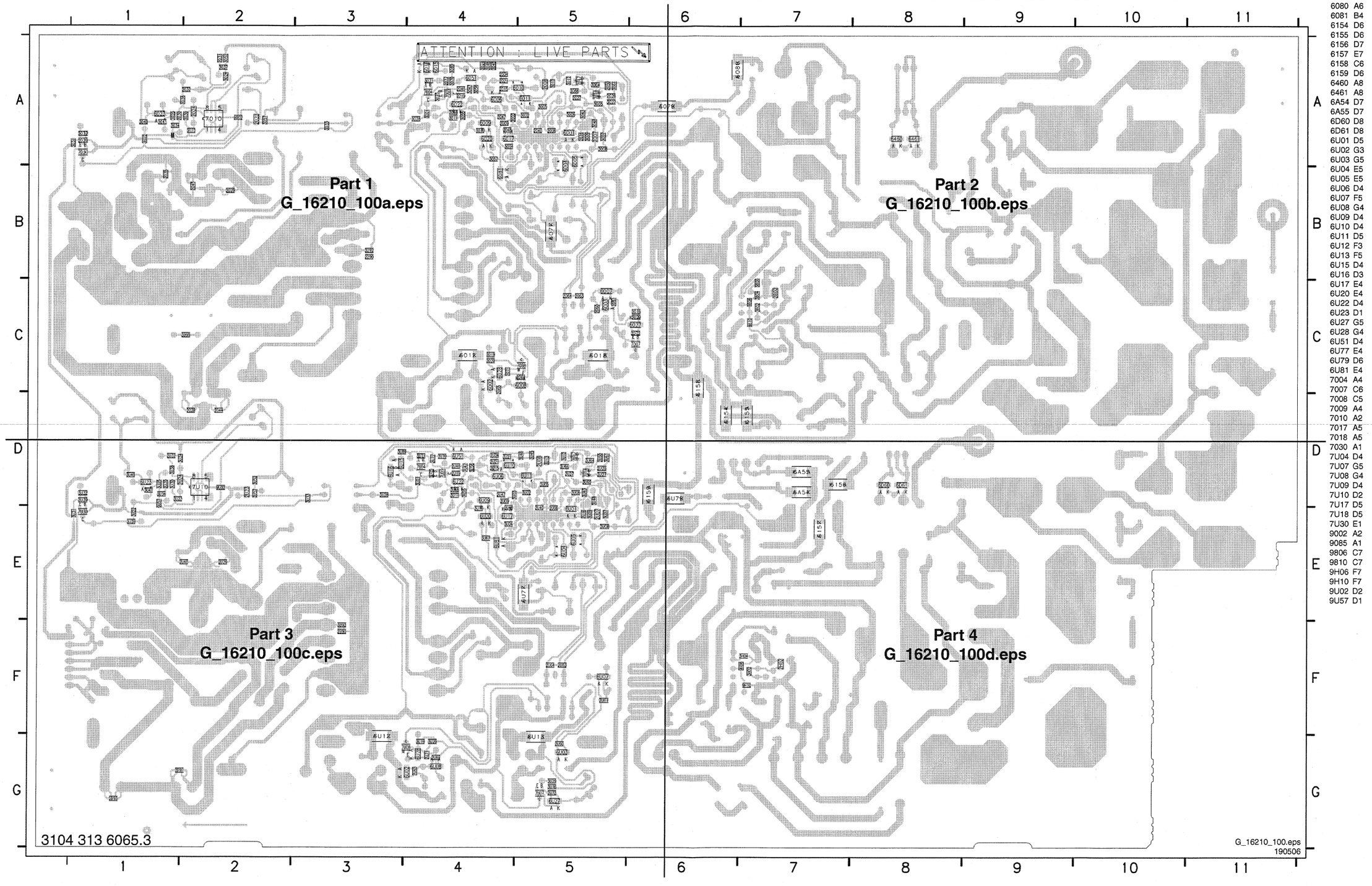
3H03	F6	3U18	G8	5005	D7	5017	A5	5401	A2	5B93	F11	5U01	F7	5U13	G9	6014	A11	6B91	G10	7002	A9	7U02	D9	9007	B3	9089	D2	9097	D6	9811	C6
3H05	G4	3U26	D10	5007	A6	5025	B10	5402	C3	5D00	D1	5U02	F9	5U15	E7	6021	B10	6B93	G11	7005	D7	7U05	G7	9008	A1	9090	A10	9098	C4	9812	C5
3H07	E5	3U50	E7	5008	A6	5026	B10	5403	D2	5D01	D3	5U04	F7	5U16	E7	6044	D10	6H07	G5	7006	C8	7U06	G9	9009	A5	9091	A9	9099	B3	9813	C6
3H10	E5	3U53	D6	5009	B8	5027	C9	5404	B3	5D02	F3	5U05	G8	5U17	D6	6078	B7	6H08	E5	7805	B5	9001	A1	9010	B11	9092	B8	9808	C6	9814	E6
3U00	D5	3U58	E7	5010	B7	5028	C10	5405	A2	5D03	F2	5U07	E6	5U25	E10	6506	B4	6H09	E5	7806	D5	9003	B4	9011	C3	9093	A8	9811	C6	9815	F6
3U14	F7	5001	C7	5013	B7	5040	C7	5804	C5	5D05	E2	5U08	E6	5U26	E10	6807	C4	6U21	E10	7H05	F6	9004	B11	9080	A8	9094	B7	9812	C5	9816	G5
3U17	G8	5002	B9	5015	B7	5041	D9	5B91	F11	5DO4	E3	5U09	E8	5U40	F7	6808	B5	6U78	E7	7H06	G6	9005	D2	9082	C4	9095	B9	9813	C6	9817	C1
3U50	E7	5004	A6	5016	B7	5400	A1	5B92	F11	5H04	F5	5U10	E8	5U41	G9	6809	B5	7001	A7	7U01	E7	9006	B2	9088	A10	9096	C7	9814	E6	9U01	E1

9U03	E4	9U04	E8	9U05	G3	9U06	E3	9U07	E3	9U08	E2	9U09	G8	9U10	F4	9U50	E3	9U51	E9	9U52	E5	9U53	F5	9U54	G7	9U55	D8	9U56	F10	9U58	E7
9U59	E5	9U60	D4	9U61	D5	9U62	D5	9U63	B11	9U65	B11	9U66	D10	9U67	A7	9U68	B7	9U69	A8	9U70	A8	9U71	B7	9U72	B7	9U73	B7	9U74	D7	9U76	E8
9U77	E9	9U78	E9	9U79	E8	9U80	E7	9U81	E7	9U82	F7	9U83	E7	9U84	G4	9U85	E6	9U86	B9	9U87	B9	9U88	F3	9U90	E2	9U91	E2				

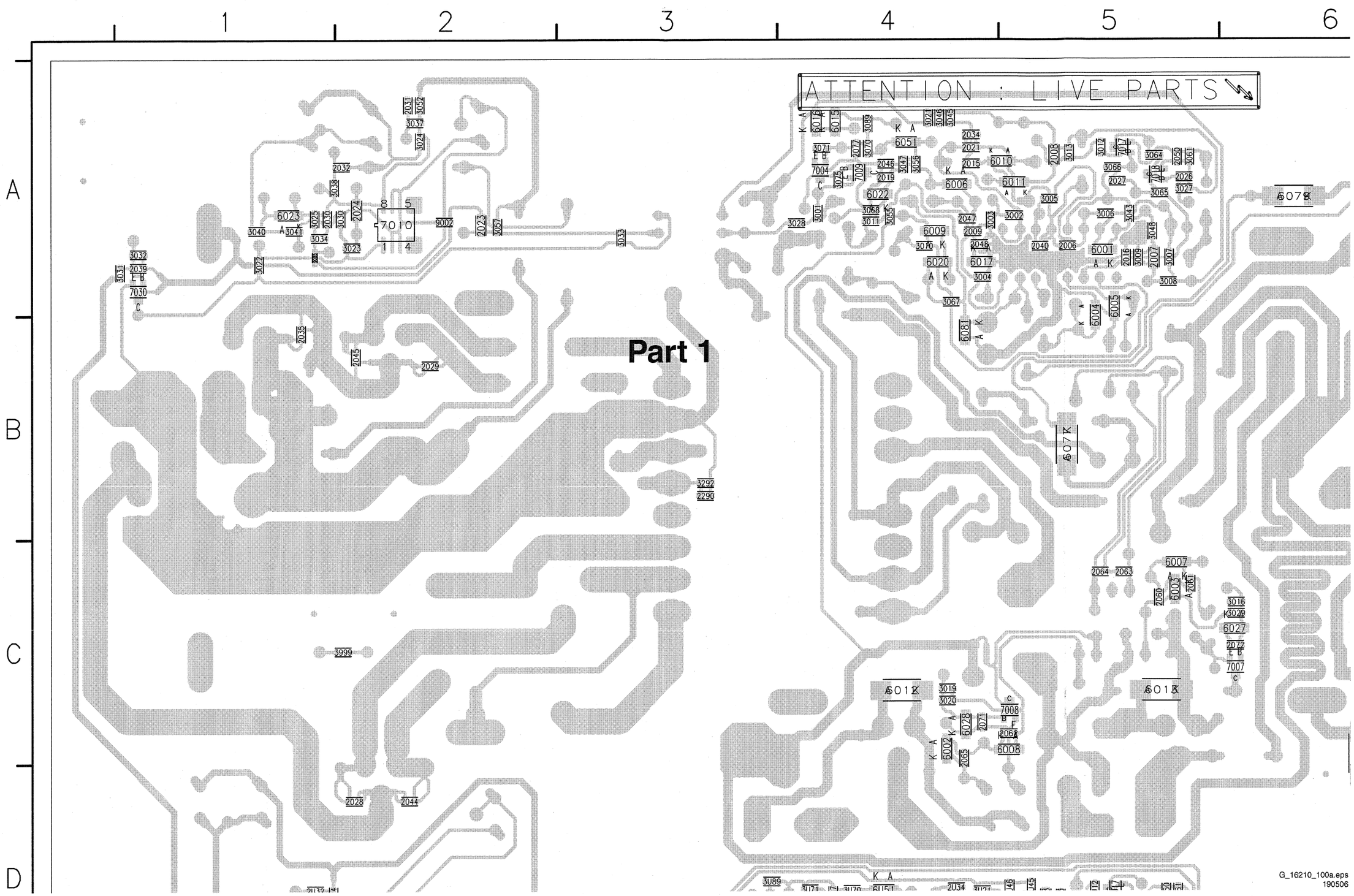


Layout LCD Supply (42") (Overview Bottom Side)

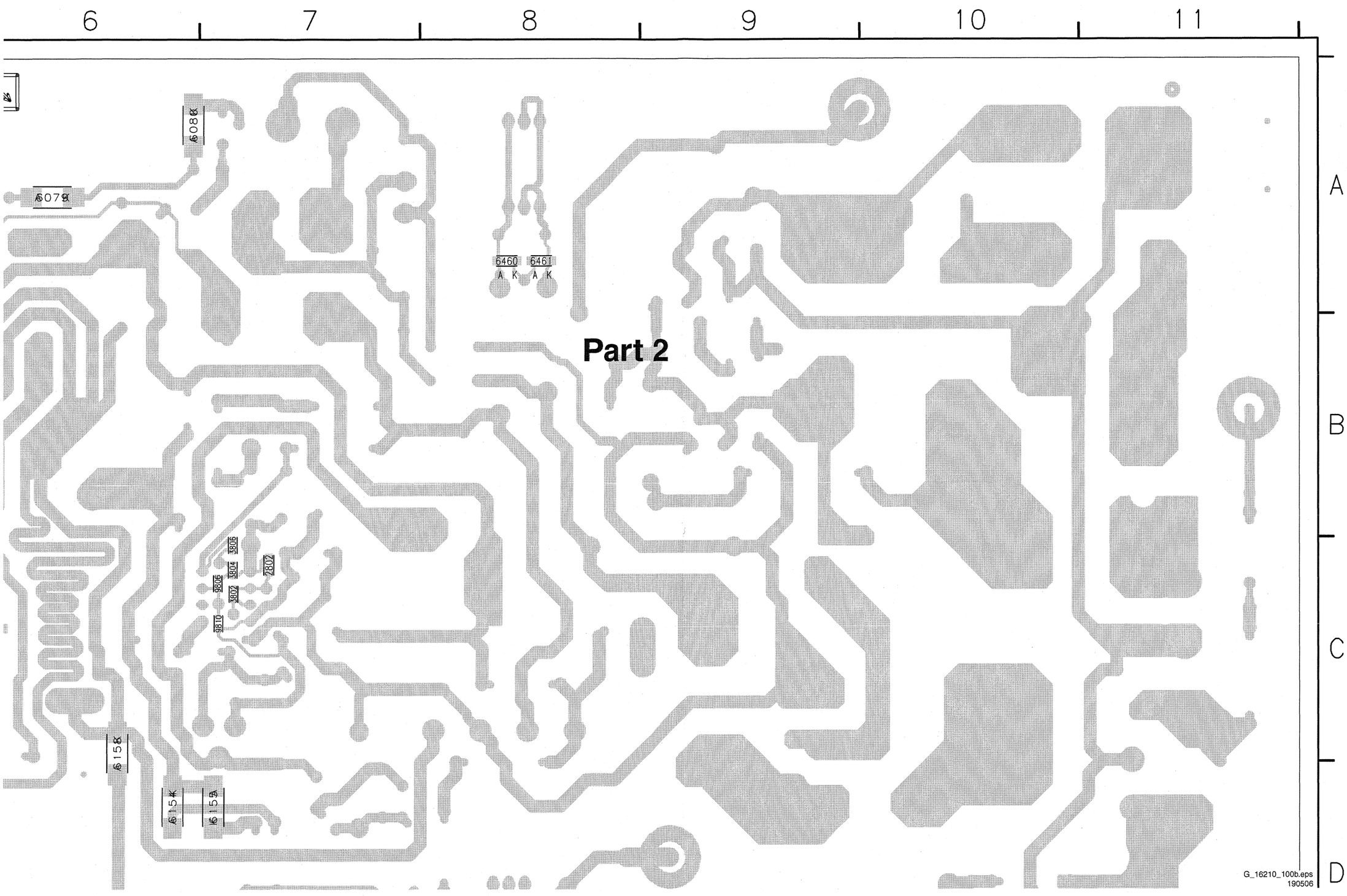
2006 A5 2021 A4 2030 A1 2044 D2 2061 C5 2077 A4 2U06 E5 2U21 D4 2U32 D1 2U48 E4 2U65 G4 3004 A4 3011 A4 3022 A1 3030 A2 3040 A1 3052 A2 3066 A5 3292 B3 3H04 F7 3U07 E5 3U16 G5 3U25 D1 3U33 D3 3U45 D5 3U57 D2 3U70 D4 6004 B5 6011 A5 6022 A4
2007 A5 2023 A2 2031 A2 2045 B2 2062 C5 2290 B3 2U07 E5 2U23 D2 2U34 D4 2U50 D5 2U71 G4 3005 A5 3012 A5 3023 A2 3031 A1 3041 A1 3055 A4 3067 A4 3802 C7 3U01 D4 3U08 E5 3U19 G4 3U27 D5 3U34 D1 3U46 D5 3U61 D5 3U71 D4 6005 A5 6012 C4 6023 A1
2008 A5 2024 A2 2032 A2 2046 A4 2063 C5 2802 C7 2U08 D5 2U24 D1 2U39 D1 2U60 G5 2U72 G5 3006 A5 3013 A5 3024 A2 3032 A1 3043 A5 3056 A4 3068 A4 3804 C7 3U02 D5 3U09 E5 3U20 G4 3U28 D3 3U38 D1 3U47 D4 3U64 D5 3U75 D4 6006 A4 6013 C5 6027 C6
2009 A4 2026 A5 2034 A4 2047 A4 2064 C5 2B90 F3 2U09 D4 2U26 D5 2U40 E5 2U61 F5 2U77 D4 3007 A5 3016 C6 3025 A1 3033 A3 3045 A4 3057 A2 3070 A4 3806 C7 3U03 D4 3U10 E4 3U21 D4 3U29 G5 3U39 E1 3U48 D5 3U65 D5 3U89 D3 6007 C5 6015 A4 6028 C4
2015 A4 2027 A5 2035 B1 2048 A4 2065 C4 2B91 G1 2U15 D4 2U27 D5 2U45 E2 2U62 G4 3001 A4 3008 A5 3019 C4 3027 A5 3034 A1 3046 A4 3061 A5 3071 A4 3999 C2 3U04 E4 3U11 D4 3U22 E1 3U30 D1 3U40 D1 3U52 D2 3U66 D5 6001 A5 6008 C5 6016 A4 6051 A4
2016 A5 2028 D2 2039 A1 2050 A5 2071 C4 2B93 G1 2U16 E5 2U29 E2 2U46 D4 2U63 F5 3002 A5 3009 A5 3020 C4 3028 A4 3037 A2 3047 A4 3064 A5 3075 A4 3B92 F3 3U05 D5 3U12 D5 3U23 D1 3U31 E1 3U41 D1 3U55 D4 3U67 E4 6002 C4 6009 A4 6017 A4 6077 B5
2019 A4 2029 B2 2040 A5 2060 C5 2072 C6 2H02 F7 2U19 D4 2U30 D1 2U47 D4 2U64 F5 3003 A4 3010 A4 3021 A4 3029 C6 3038 A1 3048 A5 3065 A5 3089 A4 3H02 F7 3U06 D5 3U13 D5 3U24 D1 3U32 D1 3U43 D5 3U56 D4 3U68 D4 6003 C5 6010 A5 6020 A4 6079 A6
6080 A6
6081 B4
6154 D6
6155 D6
6156 D7
6157 E7
6158 C6
6159 D6
6460 A8
6461 A8
6A54 D7
6A55 D7
6D60 D8
6D61 D8
6U01 D5
6U02 G3
6U03 G5
6U04 E5
6U05 E5
6U06 D4
6U07 F5
6U08 G4
6U09 D4
6U10 D4
6U11 D5
6U12 F3
6U13 F5
6U15 D4
6U16 D3
6U17 E4
6U20 E4
6U22 D4
6U23 D1
6U27 G5
6U28 G4
6U51 D4
6U77 E4
6U79 D6
6U81 E4
7004 A4
7007 C6
7008 C5
7009 A4
7010 A2
7017 A5
7018 A5
7030 A1
7U04 D4
7U07 G5
7U08 G4
7U09 D4
7U10 D2
7U17 D5
7U18 D5
7U30 E1
9002 A2
9085 A1
9806 C7
9810 C7
9H06 F7
9H10 F7
9U02 D2
9U57 D1



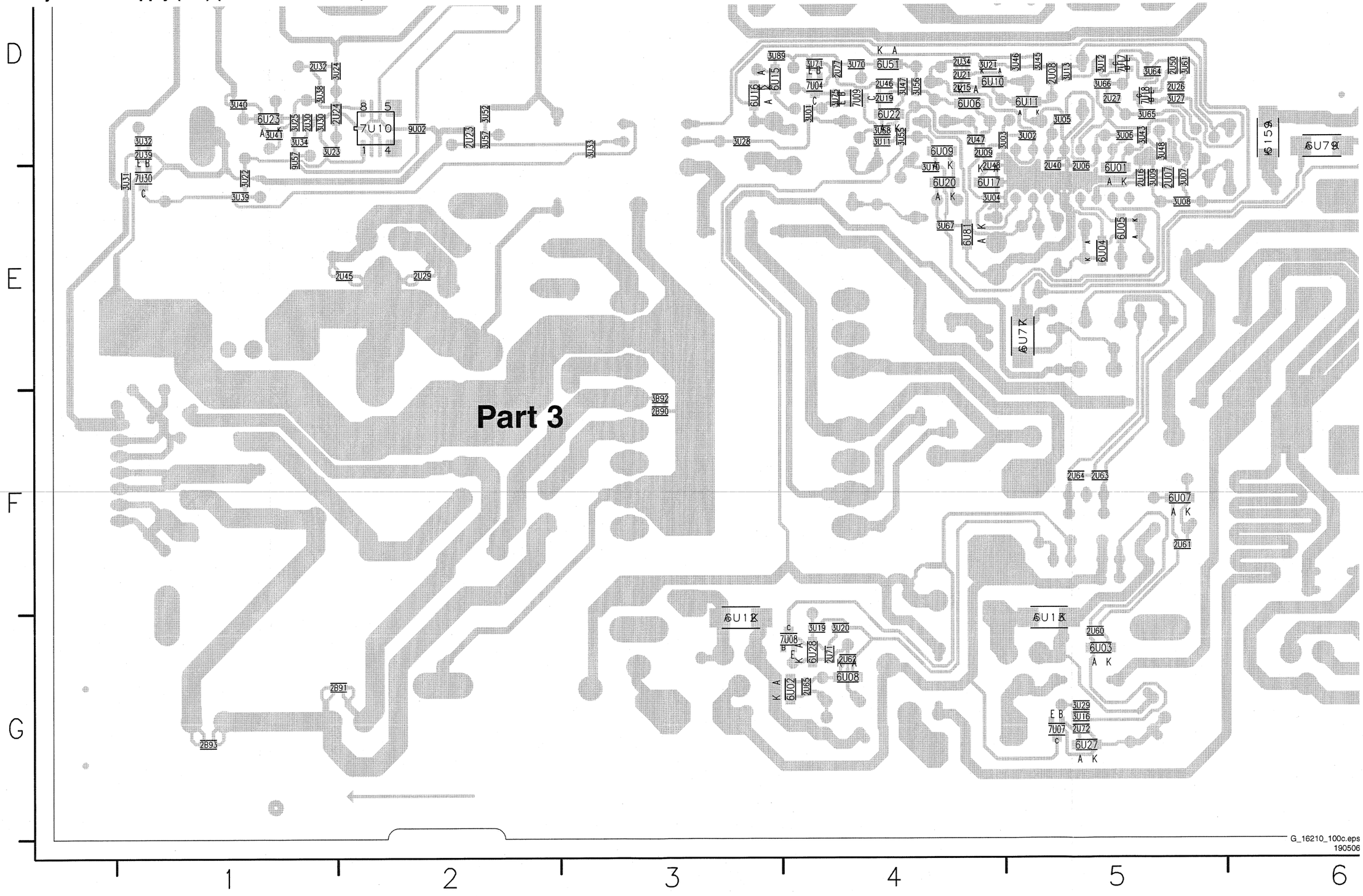
Layout LCD Supply (42") (Part 1 Bottom Side)



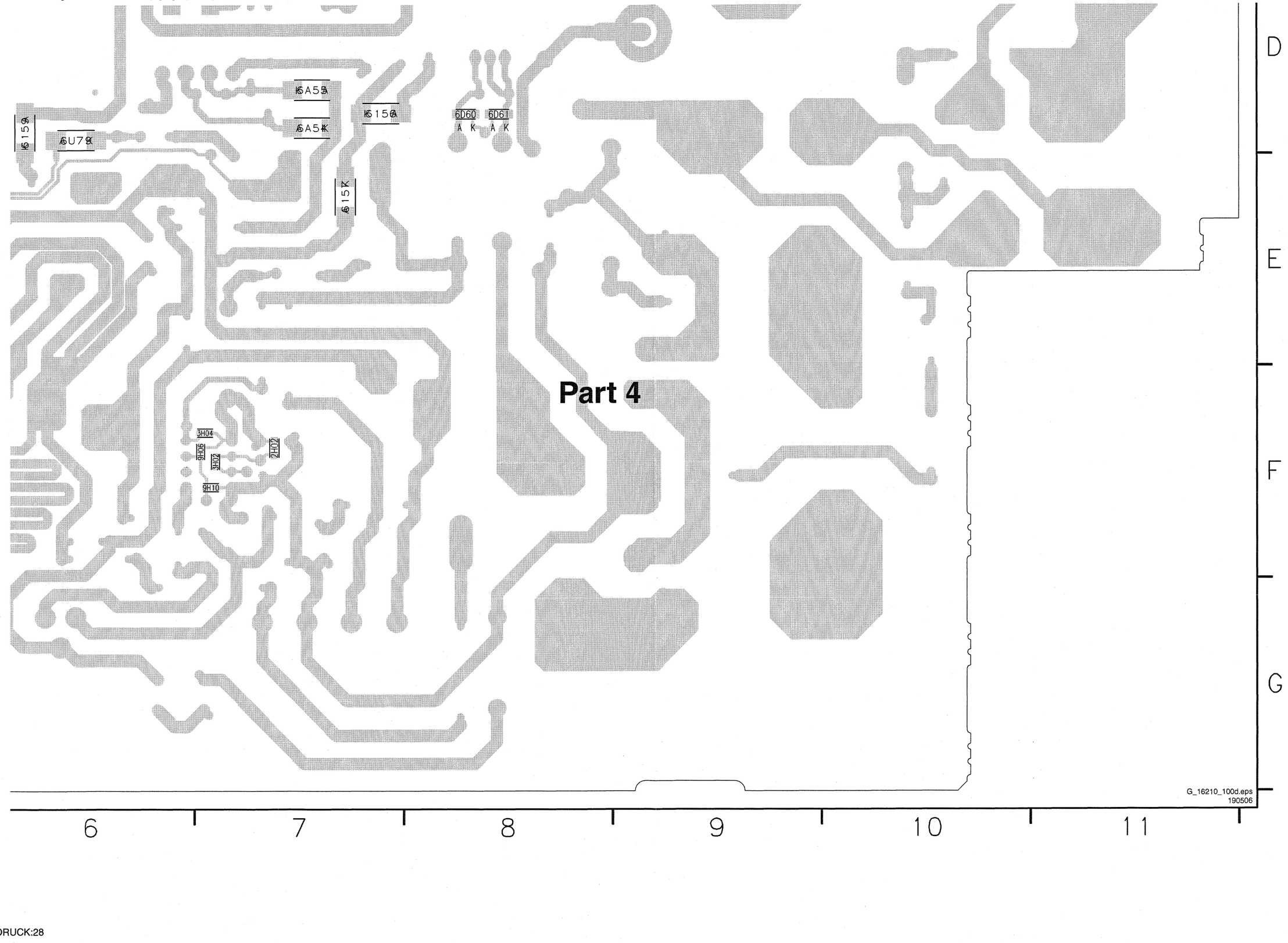
Layout LCD Supply (42") (Part 2 Bottom Side)



Layout LCD Supply (42") (Part 3 Bottom Side)



Layout LCD Supply (42") (Part 4 Bottom Side)



SSB: Tuner and IF

B1 TUNER & IF (EUROPE ONLY)

1152 UV1318ST/AIH-MK3
F151
TUNER
4151 RES
4152 RES
AGC TU AS SCL SDA NC1 5V ADC 33V NC2 IFOUT
1V7 1 NC 2 5V3 3 2V6 4 2V6 5 6 5V3 7 NC 8 7V1 9 0V 10 0V 11
IF-TER
F158
5151 390n
5VSW_a
F164 F165
SERVICE COMPAIR
1151
F152 F154
3151 100R
3152 100R
SCL SDA
I156 I157
5157 RES
5158 RES
3164 100R
3163 100R
6151 BZX384-C6V8
6152 BZX384-C6V8
F155
5VSW_a
I151
2154 22p
2155 22p
6153 BAS316
3154 10K
3153 10K
RF_AGC
F156
+VTUN
3155 1K0
F157
B6
2157 47n
2158 2u2 50V
3156 RES
2159 22u 16V
For ITV Only
1153
SCL 3166 100R F160
SDA 3167 100R F161
+3V3STBY F162 F163
TO/FROM iBOARD
SEL_IF_SDM
F159 3161 22K
I154 0V
3162 18K
7151 BC847BW
I155 0V
+5VSW
5152 6u8
F166
5VSW_a
+2151 100u 16V
2152 10n
5153 6u8
F167
5VSW_b
+2160 100u 16V
2153 10n
5VSW_b
I152
3157 6K8
3158 2K2
6154 1SS356
2156 10n
I153
3159 2K2
B2
* 1154
I IGND GND 38M9 O1 O2
OFWK3953M
5155 RES
VIF2
VIF1
* 1156
I ISWI GND 38M9 O1 O2
OFWK9656M
5156 RES
SIF2
SIF1
B7
FROM SCALER
+3V3STBY
3170 10K
3171 10K
UART_TX 3172 100R
UART_RX 3173 100R
F175 F176 F177
SERVICE UART
1177
6176 6177
BZX384-C6V8
BZX384-C6V8

3139 123 6117.2
G_16210_001.eps 160106

1151 B1
1152 A2
1153 D2
1154 B7
1156 C7
1177 E8
2151 A6
2152 A6
2153 A6
2154 C3
2155 C3
2156 C4
2157 D2
2158 D2
2159 C4
2160 A6
3151 B1
3152 B1
3153 C3
3154 C3
3155 C1
3156 D3
3157 B5
3158 B6
3159 C5
3161 E4
3162 E5
3163 C1
3164 C1
3166 D1
3167 D1
3170 E7
3171 E7
3172 E7
3173 E7
4151 A3
4152 A3
5151 B4
5152 A5
5153 A5
5155 B7
5156 C8
5157 C1
5158 C1
6151 C1
6152 C1
6153 C3
6154 B6
6176 E7
6177 E7
7151 E5
F151 A1
F152 B1
F154 B1
F155 C4
F156 C1
F157 C2
F158 B4
F159 E4
F160 D2
F161 D2
F162 D2
F163 D2
F164 B2
F165 B2
F166 A6
F167 A6
F175 E8
F176 E8
F177 E8
I151 C3
I152 B6
I153 C5
I154 E5
I155 D6
I156 C1
I157 C1

SSB: Hercules

B2 HERCULES

AUDIO PROCESSING

HERCULES
TDA15021H/N1A11

Φ VIDEO SIGNAL PROCESSOR

B3 / B13

ES10.3B RESET (RESERVED)

SECAM CIRCUIT (RESERVED)

Φ (2Kx8) EEPROM

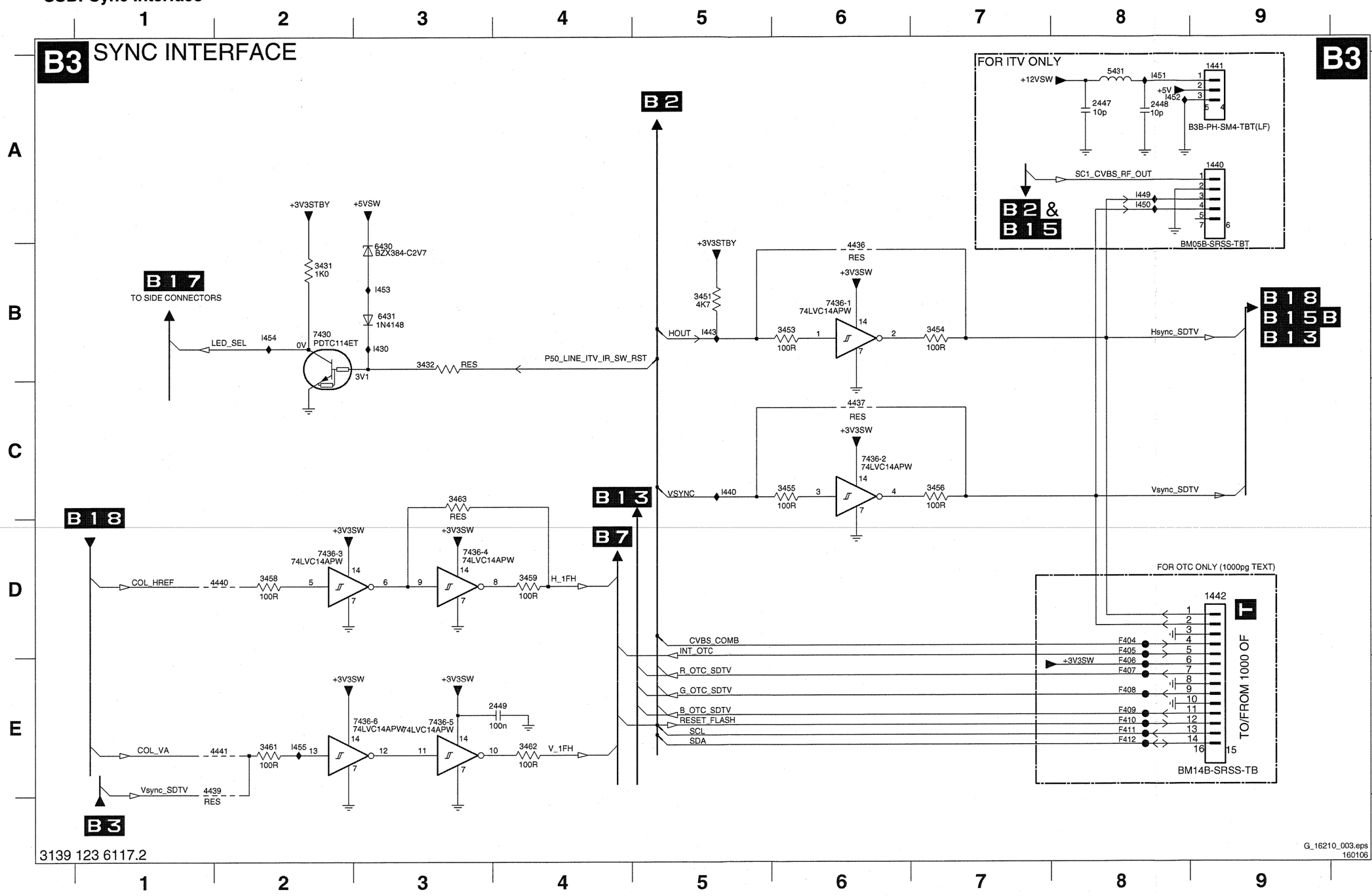
HETV MTV
(15W) (5W)
3203 5K6 820R
3202 5K6 10K
3206 5K6 820R
3205 5K6 10K

3139 123 6117.2

G_16210_002.eps
160106

1201 B7	3211 B6	4221 A12	F254 G9
1202 G10	3212 B6	5201 B5	F255 C7
2201 A3	3213 B6	5202 B5	F256 B6
2202 B3	3214 B7	5203 B7	F257 E10
2203 D2	3215 B6	5204 D5	F258 C11
2204 C5	3216 A6	5205 D5	F262 F10
2205 G4	3217 B7	5206 D4	F263 F10
2206 G4	3218 B7	5207 D4	F264 F10
2207 F5	3219 B7	5208 D5	I201 A5
2208 G4	3220 B7	5209 D5	I202 B5
2209 G4	3221 A11	5210 D5	I203 B6
2210 B5	3222 B8	5211 E5	I204 B6
2211 B6	3223 B8	5212 E5	I205 B6
2212 B12	3224 B8	5213 E5	I206 A7
2213 B7	3225 B8	5214 G9	I207 C7
2214 B6	3226 B9	5215 F10	I208 B7
2216 B6	3227 C8	5216 F10	I209 C8
2218 A7	3228 D2	5217 H7	I210 C8
2219 A7	3229 C9	5218 F2	I211 B8
2220 B7	3230 B9	6201 E4	I212 B9
2221 A7	3231 B9	6204 C11	I213 C10
2222 E5	3232 B9	6205 C11	I214 C10
2223 B8	3233 B9	6206 C12	I215 C10
2224 C8	3234 B9	7201-1 B1	I217 C11
2225 B10	3235 B9	7201-2 C2	I218 D3
2226 C10	3236 B9	7202-1 C2	I219 C5
2227 B11	3237 C9	7202-2 C3	I220 D5
2228 C5	3238 B10	7203-1 C3	I221 D5
2229 C5	3239 C10	7203-2 C3	I222 D5
2230 D4	3240 B10	7204-1 A4	I223 D5
2231 D5	3241 B10	7204-2 A3	I224 E5
2232 D5	3242 C10	7205-1 B4	I225 C10
2233 D5	3243 C10	7205-2 B4	I226 F8
2234 D4	3244 D2	7206 B6	I227 F6
2235 D4	3245 C10	7207 B12	I228 F7
2236 D5	3246 C11	7208 D2	I229 F7
2237 D5	3247 B11	7209 D2	I230 F7
2238 E5	3248 C11	7210 D3	I231 F7
2239 E5	3249 B11	7211 F4	I232 F8
2240 E5	3250 D2	7214 G3	I233 F8
2241 E5	3251 D3	7215 G4	I234 F8
2242 E5	3252 D3	7216-1 G3	I235 F8
2243 E5	3253 D3	7216-2 G3	I236 F8
2244 E5	3254 F3	7217 C6	I237 F8
2245 E5	3255 E2	7218 F11	I238 F9
2246 F5	3256 E2	7219 F2	I239 F9
2247 F6	3257 E3	7220 A11	I240 F10
2248 G6	3258 E2	7221 A12	I241 B10
2249 G6	3259 E2	F201 B2	I242 F4
2250 F7	3260 E3	F202 B2	I243 C4
2251 F7	3261 A12	F203 B3	I244 B7
2252 F7	3262 F3	F204 B3	I246 D2
2253 F7	3263 F3	F205 B6	I247 D4
2254 F7	3264 F4	F206 B6	I248 D4
2255 F7	3265 F4	F207 C7	I254 F6
2256 F8	3266 F4	F208 C7	I255 F6
2257 F8	3267 F4	F209 B7	I256 E7
2258 G5	3268 F5	F210 F2	I257 E7
2259 G8	3270 F7	F211 C9	I258 E7
2260 F8	3271 F7	F212 C8	I259 F8
2262 G8	3272 F8	F213 C10	I262 F8
2263 F8	3273 F8	F214 B10	I264 F9
2264 G8	3274 F8	F215 B10	I265 F10
2265 G8	3275 F9	F216 C10	I266 F10
2266 G8	3276 F9	F217 B11	I267 F11
2267 F8	3277 F10	F218 B11	I268 G11
2268 G8	3278 F11	F219 C12	I269 C11
2269 F9	3279 G11	F220 D3	I270 B11
2270 F9	3280 E4	F221 D3	I271 B10
2271 F9	3281 F8	F222 D5	I272 B10
2272 F9	3282 F3	F223 D5	I273 C9
2273 F10	3283 B8	F224 D5	I274 A9
2274 F10	3284 B8	F225 D5	I275 A9
2275 G9	3285 G6	F226 D5	I277 C8
2276 G10	3286 H6	F227 D4	I278 C8
2277 F10	3287 B7	F228 E5	I283 B6
2278 F11	3288 B7	F229 E5	I284 B6
2279 F11	3289 D2	F230 G4	I285 B6
2280 A3	3290 B8	F231 G4	I288 B6
2281 B3	3291 F2	F232 F5	I289 A3
2282 F10	3292 F2	F233 F5	I290 A3
2283 F10	3293 G2	F234 F5	I291 A4
2284 F10	3294 G2	F235 F5	I292 B3
2285 F6	3295 F8	F236 F6	I293 B3
2286 F7	3296 B5	F237 F6	I294 B3
2287 H7	3297 A11	F238 F6	I297 B8
2288 H6	3298 A12	F239 F6	I298 C7
2290 F3	3299 B10	F240 F6	
2291 F2	4204 C9	F241 G7	
2292 E11	4205 C9	F242 G7	
2293 C10	4206 F3	F243 G7	
3201 A3	4207 E2	F244 F8	
3202 A4	4208 E2	F245 F9	
3203 A4	4209 E3	F246 F10	
3204 B3	4211 A4	F247 D11	
3205 B4	4212 B4	F248 F8	
3206 B4	4216 B9	F249 E11	
3207 B6	4217 B9	F250 A7	
3208 B6	4218 B9	F251 G9	
3209 B6	4219 B9	F252 G9	
3210 B6	4220 A11	F253 G9	

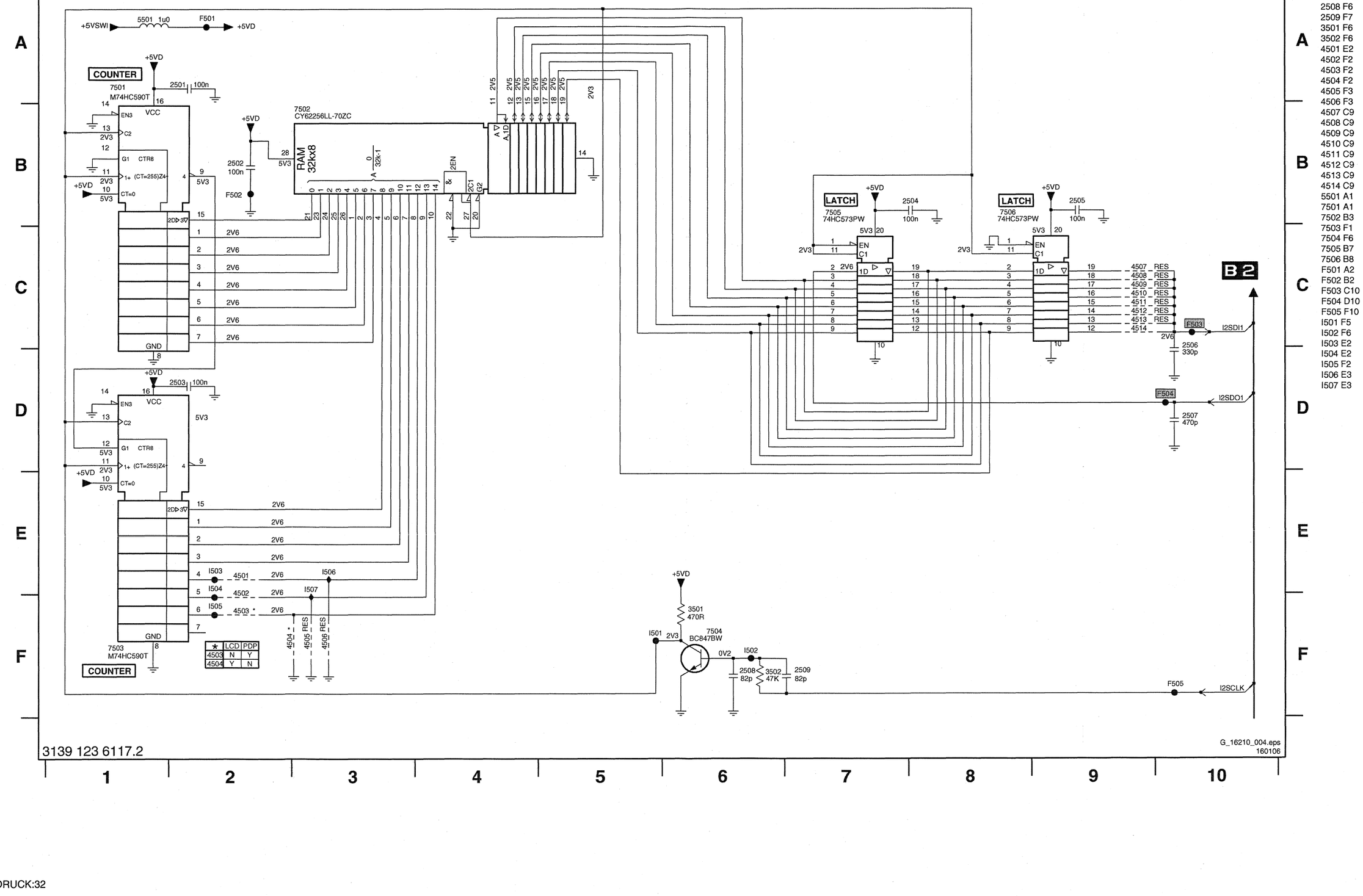
SSB: Sync Interface



1440 A9
1441 A9
1442 D9
2447 A8
2448 A8
2449 E4
3431 B2
3432 B3
3451 B5
3453 B6
3454 B7
3455 C6
3456 C7
3458 D2
3459 D4
3461 E2
3462 E4
3463 C3
4436 B6
4437 C6
4439 E1
4440 D2
4441 E2
5431 A8
6430 B3
6431 B3
7430 B2
7436-1 B6
7436-2 C6
7436-3 D2
7436-4 D3
7436-5 E3
7436-6 E3
F404 D8
F405 D8
F406 E8
F407 E8
F408 E8
F409 E8
F410 E8
F411 E8
F412 E8
I430 B3
I440 C5
I443 B5
I449 A8
I450 A8
I451 A8
I452 A8
I453 B3
I454 B2
I455 E2

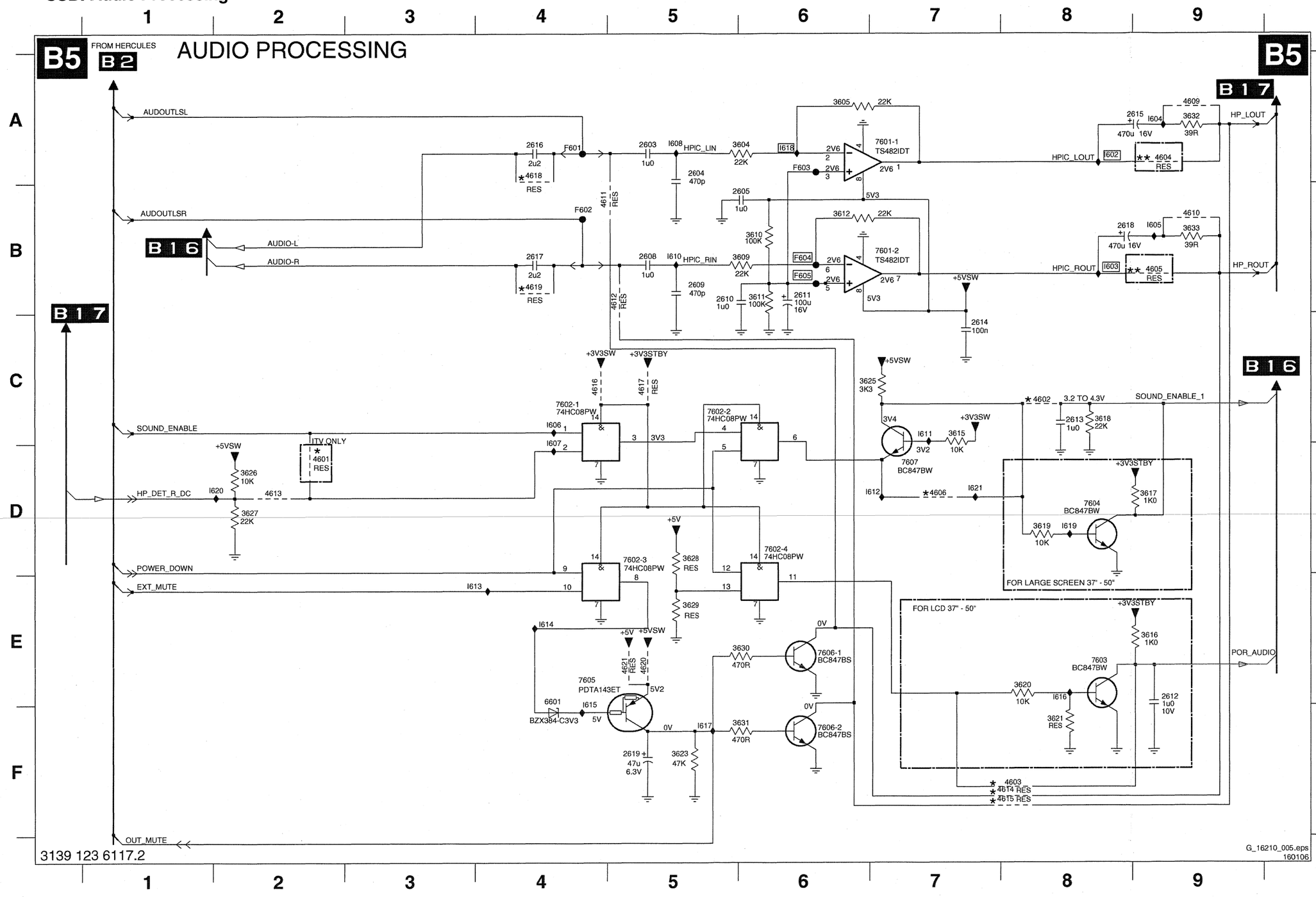
SSB: Audio Delay Line (PDP Only)

B4 AUDIO DELAY LINE (LIPSYNC) (FOR PDP SETS ONLY)



2501 A2
2502 B2
2503 D2
2504 B8
2505 B9
2506 C10
2507 D10
2508 F6
2509 F7
3501 F6
3502 F6
4501 E2
4502 F2
4503 F2
4504 F2
4505 F3
4506 F3
4507 C9
4508 C9
4509 C9
4510 C9
4511 C9
4512 C9
4513 C9
4514 C9
5501 A1
7501 A1
7502 B3
7503 F1
7504 F6
7505 B7
7506 B8
F501 A2
F502 B2
F503 C10
F504 D10
F505 F10
I501 F5
I502 F6
I503 E2
I504 E2
I505 F2
I506 E3
I507 E3

SSB: Audio Processing



2603 A5 I602 A8
2604 A5 I603 B8
2605 B6 I604 A9
2608 B5 I605 B9
2609 B5 I606 C4
2610 B5 I607 C4
2611 B6 I608 A5
2612 E9 I610 B5
2613 C8 I611 C7
2614 C7 I612 D7
2615 A9 I613 E3
2616 A4 I614 E4
2617 B4 I615 E4
2618 B8 I616 E8
2619 F5 I617 F5
3604 A6 I618 A6
3605 A6 I619 D8
3609 B6 I620 D2
3610 B6 I621 D7
3611 B6
3612 B6
3615 C7
3616 E9
3617 D9
3618 C8
3619 D8
3620 E8
3621 F8
3623 F5
3625 C6
3626 D2
3627 D2
3628 D5
3629 E5
3630 E6
3631 F6
3632 A9
3633 B9
4601 D2
4602 C8
4603 F8
4604 A9
4605 B9
4606 D7
4609 A9
4610 B9
4611 B4
4612 B5
4613 D2
4614 F8
4615 F8
4616 C4
4617 C5
4618 A4
4619 B4
4620 E5
4621 E5
6601 E4
7601-1 A7
7601-2 B7
7602-1 C4
7602-2 C5
7602-3 D5
7602-4 D6
7603 E8
7604 D8
7605 E4
7606-1 E6
7606-2 F6
7607 D7
F601 A4
F602 B4
F603 A6
F604 B6
F605 B6

SSB: DC-DC Converter

B6 DC-DC CONVERTER

B6

FROM TOP CONNECTORS B16

+12VSW F701 +12VSW

2704 10u 16V

+5V I706 5704

2706 10u 16V

7708 LF33CPT IN OUT CTRL NC COM

I709 I708

3709 6K8 2708 RES 2709 47u 16V

F710 +3V3STBY

2716 470u 16V

+12VSW I710 5709 10u

2710 22u 16V SUP_GND2

2711 22u 16V SUP_GND2

3718 10R 2719 100n 3719 680R 2720 1n0

SIG_GND2 I714 I715

6717 BAS316

7710 L6910 PGOOD VCC OCSET VREF SS OSC EAREF BOOT HGATE PHASE LGATE PGND GND VFB COMP NC

Monitor Protection & Ref OSC

2717 100n 2718 100n I711 I712

2721 100n I717 I716 3720 2R2 I718 I719 3701 10K

7711-1 SI4922DY

3721 2R2 I720 I721 3702 10K

7711-2 SI4922DY

2702 100n SIG_GND2

F717 SIG_GND2 I723

2722 1n0 3722 2K7 2723 47n

3727 1K0 1% SIG_GND2

I722

FOR 37"-50" LARGE SCREEN

5717 I725 10u 5713 3u3

2724 1n0 SS24 I724 2725 1n0 6718 3723 10R SUP_GND2

2726 470u 16V 3724 15K 3725 3K3 1% 3726 1K2 2727 10n I726

SUP_GND2

FOR 26"-42" SCREEN

+12VSW 5756 I756 7754 SI2301BDS-T1-E3 SS = 4V9 I757 5757 120R PAN_VCC 5700 120R F700 LVDS_VCC 11V5

11V5 2 3 1

RES 2749 3755 10K 2751 4u7 I747 6V8

2752 47u 16V 2700 RES 2701 100p

3758 15K 3760 100R

B8 FROM SCALER

7755 PDTC114ET I760

PANEL-PWR-CTL F755 (0V) 0V6

2760 1u0 25V

RES

B20 TO PACIFIC3

SUPPLY TO SCALER

+12VSW 5752 10u I764

2753 22u 16V GND SUP_GND3

7752 L5970D VCC COMP INH GND OUT FB SYNC VREF

I758 I755

2763 22n 2756 220p 3737 4K7

5753 220u 6751 SS14

SUP_GND3

RES

B7 TO SCALER CELL B4 TO LIPSYNC

3753 1K01% 1V2 I753 3754 3K3 1% I754 5754 10u F754 +5VSWI 5V4

2757 470u 16V 2758 470u 16V

SUP_GND3

SUPPLY TO TUNER & HERCULES

+12VSW 5730 10u I731

2730 22u 16V SUP_GND1

7730 L5973D VCC VREF OUT FB COMP INH SYNC GND_GND_HS

I762 3734 100R 6734 BZX384-C6V8 I733

F736 32V9 +VTUN TO TUNER CELL B1

6735 BAV99 2736 22u 35V 6736 BZX384-C33

7735 2N7002 I735 2735 680p

I705 2734 22n 2733 220p I701 3736 4K7

5733 33u 6733 SS14 3735 1K0 I734

SUP_GND1

B2 TO HERCULES CELL

5735 100u

3732 1K0 1% I732 3733 3K3 1% I736 5737 10u 5V2 F737 +5VSW

8V F738 +8VSW_TV

F743 POWER_DOWN B5

B7 B516

2731 470u 16V 2737 470u 16V

+12VSW 5738 120R I702 7738 L78M08CDT IN OUT COM 2738 47u 16V 2739 47u 16V

+3V3STBY 3743 22K 3742 15K I742 7742 BC847BW

+12VSW 6740 PDZ8.2-B I740 3740 1K5 I741 7741 BC847BW 3741 1K5 2741 220n

FOR 37"-50" LARGE SCREEN

B2 FROM HERCULES

+3V3STBY 3V2

RES 2750 3750 22K 2762 22u 16V 7758 SI4423DY

3759 12K I748 SC_STANDBY 0V 3V1 7756 PDTC114ET

3761 100R I704 2761 1u0 25V RES

2759 100u 16V +3V3SW

5751 10u

3139 123 6117.2

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2700	B11	6736	F6
2701	B11	6740	H1
2702	D1	6751	E10
2704	B2	7708	A5
2706	A3	7710	C2
2708	B4	7711-1	C4
2709	B4	7711-2	D4
2710	B4	7730	F2
2711	B4	7735	F5
2716	B7	7738	G2
2717	D1	7741	H3
2718	D1	7742	H3
2719	C2	7752	D9
2720	C3	7754	B9
2721	D4	7755	C8
2722	E4	7756	G8
2723	E4	7758	G9
2724	C5	F700	B11
2725	C5	F701	B2
2726	C5	F710	B6
2727	D6	F717	D3
2730	F2	F736	F6
2731	H5	F737	G6
2733	F4	F738	G6
2734	F3	F743	G6
2735	F5	F754	F11
2736	F6	F755	C8
2737	H6	I701	F3
2738	G1	I702	G1
2739	G2	I704	G8
2741	H2	I705	F3
2749	B8	I706	A3
2750	F9	I708	B4
2751	B9	I709	B4
2752	B10	I710	B3
2753	D8	I711	D2
2756	E8	I712	D2
2757	F10	I714	C2
2758	F11	I715	C3
2759	G10	I716	D3
2760	C9	I717	D4
2761	G9	I718	D3
2762	G9	I719	D4
2763	E8	I720	D3
3701	D4	I721	D4
3702	D4	I722	E2
3709	B4	I723	E4
3718	C2	I724	C5
3719	C3	I725	C6
3720	D4	I726	C6
3721	D3	I731	E2
3722	E4	I732	G4
3723	D5	I733	F4
3724	C6	I734	F4
3725	C6	I735	F5
3726	C6	I736	G5
3727	E6	I740	H1
3732	G3	I741	H2
3733	G4	I742	H3
3734	E4	I747	B9
3735	G5	I748	G8
3736	G3	I753	F9
3737	E8	I754	F10
3740	H2	I755	D10
3741	H2	I756	B9
3742	H3	I757	B9
3743	G3	I758	E8
3750	G8	I760	C8
3753	F9	I762	E4
3754	F10	I764	D8
3755	B9		
3758	C8		
3759	G8		
3760	C9		
3761	G9		
5700	B11		
5704	A3		
5709	B3		
5713	C6		
5717	C5		
5730	E2		
5733	G4		
5735	G5		
5737	G5		
5738	G1		
5751	H10		
5752	D8		
5753	E10		
5754	F10		
5756	B9		
5757	B10		
6717	C3		
6718	C5		
6733	G4		
6734	F4		
6735	F5		

SSB: Diversity Tables B1-B6

B01

Item nr.	EU non DVB	EU DVB	Description
1152	☑	☐	TUN V+U PLL IEC BGHIL B
	☐	☑	TUNER UV1318SD/A CP H N-4
3163	☑	☐	RST SM 0603 100R PM5 COL
3164	☑	☐	RST SM 0603 100R PM5 COL
5152	☐	☑	FXDIND SM 1008 1U PM5 COL R
	☑	☐	FXDIND SM 1008 6U8 PM5 COL R
5157	☐	☑	FXDIND 0603 100MHZ 600R COL R
5158	☐	☑	FXDIND 0603 100MHZ 600R COL R

B02

Item Nr.		/93 China	AP 10pg TXT	EU 10pg TXT	EU 10pg TXT DVB	EU 1000pg TXT	EU 1000pg TXT DVB	Description
2203	319803041090	☑	☐	☐	☐	☐	☐	ELCAP SM 16V 10U PM20 COL R
2244	319803571040	☐	☐	☑	☑	☑	☑	CER2 0402 Y5V 16V 100N COL
2245	319803571040	☐	☐	☑	☑	☑	☑	CER2 0402 Y5V 16V 100N COL
2246	319803571040	☐	☐	☑	☑	☑	☑	CER2 0402 Y5V 16V 100N COL
2280	202055200005	☐	☑	☐	☑	☑	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2281	202055200005	☐	☑	☐	☑	☑	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2289	319802131510	☐	☐	☑	☑	☑	☑	RST SM 0603 150R PM5 COL
2290	222224059872	☐	☐	☑	☑	☑	☑	CER2 0805 Y5V 10V 4U7 P8020 R
2291	319803571040	☐	☐	☑	☑	☑	☑	CER2 0402 Y5V 16V 100N COL
3250	319803101010	☑	☑	☑	☑	☐	☐	RST SM 0402 100R PM5 COL
3251	319803101010	☑	☑	☑	☑	☐	☐	RST SM 0402 100R PM5 COL
3252	319803101010	☑	☑	☑	☑	☐	☐	RST SM 0402 100R PM5 COL
3253	319803101010	☑	☑	☑	☑	☐	☐	RST SM 0402 100R PM5 COL
3255	319803190010	☑	☑	☑	☑	☐	☐	RST SM 0402 JUMP. 0R05 COL
3256	319803190010	☑	☑	☑	☑	☐	☐	RST SM 0402 JUMP. 0R05 COL
3257	319803190010	☑	☑	☑	☑	☐	☐	RST SM 0402 JUMP. 0R05 COL
3258	319803101020	☑	☑	☑	☑	☐	☐	RST SM 0402 1K PM5 COL
3259	319803101020	☑	☑	☑	☑	☐	☐	RST SM 0402 1K PM5 COL
3260	319803101020	☑	☑	☑	☑	☐	☐	RST SM 0402 1K PM5 COL
3282	319802131510	☐	☐	☑	☑	☑	☑	RST SM 0603 150R PM5 COL
3294	319803104730	☐	☐	☑	☑	☑	☑	RST SM 0402 47K PM5 COL
3296	319803101010	☐	☐	☐	☑	☑	☑	RST SM 0402 100R PM5 COL
4206	319802190020	☑	☑	☐	☐	☐	☐	RST SM 0805 JUMP. 0R05 COL R
4218	319803190010	☐	☐	☑	☑	☑	☑	RST SM 0402 JUMP. 0R05 COL
4219	319803190010	☐	☐	☑	☑	☑	☑	RST SM 0402 JUMP. 0R05 COL
5218	242254945333	☐	☐	☑	☑	☑	☑	IND FXD 1206 EMI 100MHZ 120R R
6206	319801010660	☐	☐	☐	☑	☐	☑	DIO SIG SM BAT54 SOD323 COL R
7208	319801042310	☑	☑	☑	☑	☐	☐	TRA SIG SM BC847BW (COL) R
7209	319801042310	☑	☑	☑	☑	☐	☐	TRA SIG SM BC847BW (COL) R
7210	319801042310	☑	☑	☑	☑	☐	☐	TRA SIG SM BC847BW (COL) R
7217	935280215557	☐	☐	☑	☑	☐	☐	IC SM TDA15031H/N1C91 (PHSE)Y
	935280366557	☐	☑	☐	☐	☑	☑	IC SM TDA15021H/N1C91 (PHSE) Y
	935280367557	☑	☐	☐	☐	☐	☐	IC SM TDA15011H/N1CD0 (PHSE) Y
7219	319801071090	☐	☐	☑	☑	☑	☑	IC SM 74HC4053D (COL) R

B03

Item Nr.		10pg TXT (w/o OTC)	1000pg TXT (with OTC)	DVB 10pg TXT (w/o OTC)	DVB 1000pg TXT (with OTC	Description
1442	242202519085	☐	☑	☐	☑	CON V 14P M 1.00 SM SR R
3432	319803102720	☐	☐	☑	☑	RST SM 0402 2K7 PM5 COL
6430	934054842115	☑	☑	☐	☐	DIO REG SM PDZ2.4B (PHSE) R
6431	932220595685	☑	☑	☐	☐	DIO SIG SM 1N4148WS-V (VISH) R

B05

Item Nr.		LCD 37" - 50"	LCD 26" - 32"	PDP 42" - 50"	Decription
2612	319801741050	☑	☐	☑	CER2 0603 Y5V 10V 1U COL
2613	319801741050	☐	☑	☐	CER2 0603 Y5V 10V 1U COL
2616	202055200035	☐	☑	☐	CER2 0603 X5R 6V3 2U2 PM10 R
2617	202055200035	☐	☑	☐	CER2 0603 X5R 6V3 2U2 PM10 R
2619	319803024790	☐	☑	☐	ELCAP SM 6V3 47U PM20 COL R
3615	319803101030	☐	☑	☐	RST SM 0402 10K PM5 COL
3616	319803101020	☑	☐	☐	RST SM 0402 1K PM5 COL
	319803190010	☐	☐	☑	RST SM 0402 JUMP. 0R05 COL
3617	319803101020	☑	☐	☑	RST SM 0402 1K PM5 COL
3618	319803102230	☐	☑	☐	RST SM 0402 22K PM5 COL
3619	319803101030	☑	☐	☑	RST SM 0402 10K PM5 COL
3620	319803101030	☑	☐	☐	RST SM 0402 10K PM5 COL
3623	319803104730	☐	☑	☐	RST SM 0402 47K PM5 COL
3625	319803103320	☐	☑	☐	RST SM 0402 3K3 PM5 COL
3627	319803102230	☐	☑	☐	RST SM 0402 22K PM5 COL
3628	319803101030	☑	☐	☑	RST SM 0402 10K PM5 COL
3629	319803102230	☑	☐	☑	RST SM 0402 22K PM5 COL
3630	319803102220	☑	☐	☑	RST SM 0402 2K2 PM5 COL
	319803103310	☐	☑	☐	RST SM 0402 330R PM5 COL
3631	319803102220	☑	☐	☑	RST SM 0402 2K2 PM5 COL
	319803103310	☐	☑	☐	RST SM 0402 330R PM5 COL
3632	232270570569	☑	☐	☑	RST SM 0402 RC31 56R PM5 R
3633	232270570569	☑	☐	☑	RST SM 0402 RC31 56R PM5 R
4601	319802190030	☑	☐	☐	RST SM 0603 JUMP. 0R05 COL
4602	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4603	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4606	319802190030	☑	☐	☑	RST SM 0603 JUMP. 0R05 COL
4609	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4610	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4611	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4612	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4613	319802190030	☐	☑	☐	RST SM 0603 JUMP. 0R05 COL
4614	319802190030	☑	☐	☑	RST SM 0603 JUMP. 0R05 COL
4615	319802190030	☑	☐	☑	RST SM 0603 JUMP. 0R05 COL
4618	319802190030	☑	☐	☑	RST SM 0603 JUMP. 0R05 COL
4619	319802190030	☑	☐	☑	RST SM 0603 JUMP. 0R05 COL
7603	319801042310	☑	☐	☐	TRA SIG SM BC847BW (COL) R
7604	319801042310	☑	☐	☑	TRA SIG SM BC847BW (COL) R
7607	319801042310	☐	☑	☐	TRA SIG SM BC847BW (COL) R

B06

Item Nr.		PDP - 42" - 50"	LCD 26" - 32"	LCD 37" - 42"	Description
2701	319803401010	☐	☑	☑	CER1 0402 NP0 50V 100P COL
2702	319803571040	☑	☐	☑	CER2 0402 Y5V 16V 100N COL
2706	319803041090	☑	☐	☑	ELCAP SM 16V 10U PM20 COL R
2709	319803044790	☑	☐	☑	ELCAP SM 16V 47U PM20 COL R
2710	202055200211	☑	☐	☑	CER2 1210 X5R 16V 22U PM10 R
2711	202055200211	☑	☐	☑	CER2 1210 X5R 16V 22U PM10 R
2717	319803571040	☑	☐	☑	CER2 0402 Y5V 16V 100N COL
2718	319803571040	☑	☐	☑	CER2 0402 Y5V 16V 100N COL
2719	319803571040	☑	☐	☑	CER2 0402 Y5V 16V 100N COL
2720	319803501020	☑	☐	☑	CER2 0402 X7R 50V 1N COL
2721	319803571040	☑	☐	☑	CER2 0402 Y5V 16V 100N COL
2722	319803501020	☑	☐	☑	CER2 0402 X7R 50V 1N COL
2723	319803574730	☑	☐	☑	CER2 0402 Y5V 16V 47N COL
2724	319801631020	☑	☐	☑	CER1 0603 NP0 25V 1N COL
2725	319801631020	☑	☐	☑	CER1 0603 NP0 25V 1N COL
2726	202002100097	☑	☐	☑	ELCAP SM SGV 16V 470U PM20 R
2727	319803521030	☑	☐	☑	CER2 0402 X7R 16V 10N COL
2741	319801732240	☑	☐	☐	CER2 0603 X7R 10V 220N COL
	222224059872	☐	☑	☑	CER2 0805 Y5V 10V 4U7 P8020 R
2752	319803044790	☐	☑	☑	ELCAP SM 16V 47U PM20 COL R
3701	319803101030	☑	☐	☑	RST SM 0402 10K PM5 COL
3702	319803101030	☑	☐	☑	RST SM 0402 10K PM5 COL
3709	319803106820	☑	☐	☑	RST SM 0402 6K8 PM5 COL
3718	232275061009	☑	☐	☑	RST SM FUSE 1206 10R PM5 R
3719	319803106810	☑	☐	☑	RST SM 0402 680R PM5 COL
3720	319802132280	☑	☐	☑	RST SM 0603 2R2 PM5 COL
3721	319802132280	☑	☐	☑	RST SM 0603 2R2 PM5 COL
3722	319803102720	☑	☐	☑	RST SM 0402 2K7 PM5 COL
3723	319802151090	☑	☐	☑	RST SM 0805 10R PM5 COL R
3724	319803101530	☑	☐	☑	RST SM 0402 15K PM5 COL
3725	232270463302	☑	☐	☑	RST SM 0603 RC22H 3K3 PM1 R
3726	319803101220	☑	☐	☑	RST SM 0402 1K2 PM5 COL
3727	232270461002	☑	☐	☑	RST SM 0603 RC22H 1K PM1 R
3740	319803101520	☑	☐	☑	RST SM 0402 1K5 PM5 COL
3741	319803101520	☑	☐	☑	RST SM 0402 1K5 PM5 COL
3742	319803101530	☑	☐	☑	RST SM 0402 15K PM5 COL
3743	319803102230	☑	☐	☑	RST SM 0402 22K PM5 COL
3750	319803102230	☐	☑	☐	RST SM 0402 22K PM5 COL
3755	319803101030	☐	☑	☑	RST SM 0402 10K PM5 COL
3758	319803101530	☐	☑	☑	RST SM 0402 15K PM5 COL
3759	319803101230	☐	☑	☐	RST SM 0402 12K PM5 COL
5700	242254945333	☐	☑	☑	IND FXD 1206 EMI 100MHZ 120R R
5704	242254945333	☑	☐	☑	IND FXD 1206 EMI 100MHZ 120R R
5709	242253594134	☑	☐	☑	IND FXD SM 7032 10U PM20 R
5713	242253601218	☑	☐	☑	IND FXD SM DRH104RNP 3U3 PM30
5717	242253600671	☑	☐	☑	IND FXD SM 12575 10U PM20 R
5754	242253594134	☐	☐	☐	IND FXD SM 7032 10U PM20 R
5756	242254945333	☐	☑	☑	IND FXD 1206 EMI 100MHZ 120R R
5757	242254945333	☐	☑	☑	IND FXD 1206 EMI 100MHZ 120R R
6717	319801010630	☑	☐	☑	DIO SIG SM BAS316 (COL) R
6718	319801010720	☑	☐	☑	DIO REC SS24 COL R
6740	934054857115	☑	☐	☑	DIO REG SM PDZ8.2B (PHSE) R
6751	319801010710	☐	☐	☐	DIO REC SS14 COL R
7708	932213916668	☑	☐	☑	IC SM LF33CPT (ST00) R
7710	932218277668	☑	☐	☑	IC SM L6910 (ST00) R
7711	932216070668	☑	☐	☑	FET POW SM SI4936ADY-E3(VISH)R
7741	319801042310	☑	☐	☑	TRA SIG SM BC847BW (COL) R
7742	319801042310	☑	☐	☑	TRA SIG SM BC847BW (COL) R
7754	932221400668	☐	☑	☑	FET POW SM SI2301BDS-E3(VISH)R
7755	319801044110	☐	☐	☑	TRA SIG SM PDTC114ET (COL) R
7756	319801044110	☐	☑	☐	TRA SIG SM PDTC114ET (COL) R
7758	932221214668				FET POW SM SI4423DY-E3 (VISH)R

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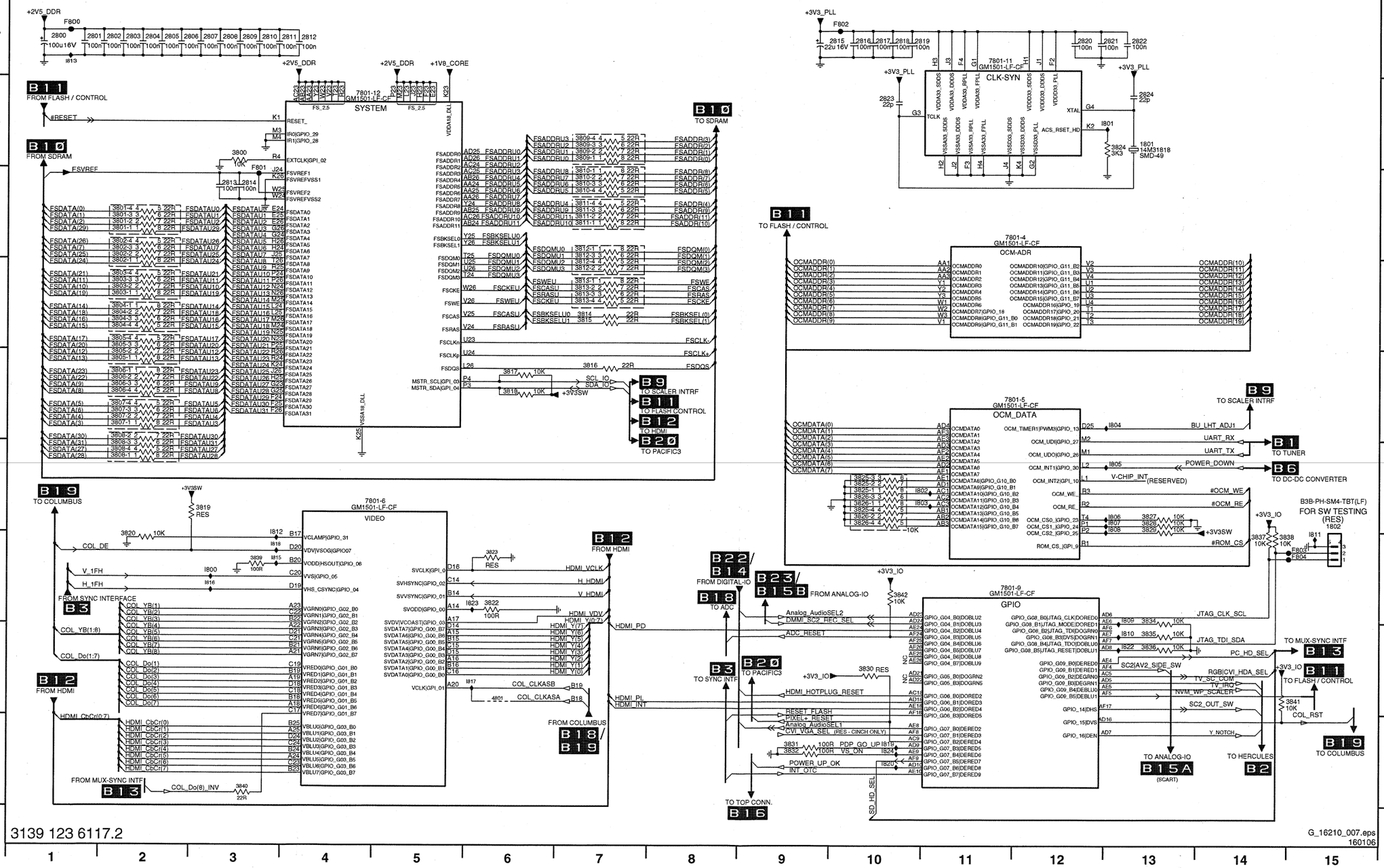
SSB: Scaler

B7 SCALER



SSB: Scaler

B8 SCALER

B8

SUPPLY FOR SCALER

+3V3SW
5900 → +3V3_PLL
5901 → +3V3_ADC
5902 → +3V3_DVI
5903 → +3V3_IO
5904 F900 → +3V3_LBADC
5905 → +3V3_LVDSA
5906 → +3V3_LVDSB
5907 → +3V3_LVDS

+3V3SW → 7900 LF25CDT (IN, OUT, COM) → I900 → 5908 → +2V5_DDR
2900 100n
2901 1n0
2902 100u 16V
2960 100u 16V

+3V3SW → 7901 LD1086D2T18 (IN, OUT, COM) → I902 → +1V8
I901 2903 100n
2904 47u 16V
5909 → +1V8_ADC
5910 → +1V8_DVI
5911 → +1V8_CORE

+3V3_IO → F901 → 2905 100u 16V; 2906–2916 100n
+1V8_CORE → F902 → 2917 100u 16V; 2918–2929 100n

7801-13 GM1501-LF-CF SUPPLY
IO_3.3: AC10 AC8 AC6 AC4 AB4 AA4 T4 W4 D22 D17
CORE_1.8: U17 U16 U10 T17 T16 T11 L16 L11 K17 K16 K11 K10
D_GND: A13 B13 K13 K14 K15 L10 L12 L13 L14 L15 L17 M10 M11 M12 M13 M14 M15 M16 M17 N10 N11 N12 N13 N14 N15 N16 N17 P10 P11 P12 P13 P14 P15 P16 P17 R10 R11 R12 R13 R14 R15 R16 R17 T10 T12 T13 T14 T15 U12 U13 U14 U15 AD15
I905

7801-14 GM1501-LF-CF NC: NC A1, NC C5, NC D5, NC NC, AC17 NC, K3 NC, F1 NC

+3V3_LBADC
2940 47u 16V; 2941 100n
7801-3 GM1501-LF-CF ADC (LBADC_33)
I908
C12 LBADC_IN1
(RES) B12 LBADC_IN2
(RES) A12 LBADC_IN3
D12 LBADC_RETURN
LBADC_GND D13
2942 100n
C13

B2 KEYBOARD 4900 RES

F903 2930–2933 100n → +1V8_DVI
+3V3_DVI → F904 2934 47u 16V; 2935–2939 100n

7801-2 GM1501-LF-8 DVI
DVI_1.8: D6 D8 D9 D10
DVI_3.3: C10 C11 C9 C8 C6
N4 DVI_SCL|GPI_07
N3 DVI_SDA|GPI_08
A6 RXCp
B6 RXCn
A8 RX0p
B8 RX0n
A9 RX1p
B9 RX1n
A10 RX2p
B10 RX2n
B11 REXT
NC
DVI_GND: A7 A11 B5 B7 C7 D7 D11
I906

7801-10 GM1501-LF-CF DISPLAY PWR
AD19 LVDSA_GND_1
AC19 LVDSA_GND_2
AC20 LVDSA_GND_3
AC13 LVDSB_GND_1
AC14 LVDSB_GND_2
AC15 LVDSB_GND_3
AD17 VSSD33_LVDS
VDDD33_LVDS AE17
LVDSA_3.3_3 AC22
LVDSA_3.3_2 AC21
LVDSA_3.3_1 AD20
LVDSB_3.3_3 AC12
LVDSB_3.3_2 AD13
LVDSB_3.3_1 AD12
+3V3_LVDS → F905
+3V3_LVDSA → F906 → 2945 22u 16V; 2946–2948 100n; 2949 100n
+3V3_LVDSB → F907 → 2950 22u 16V; 2951 100n; 2952 100n

B13 TO MUX-SYNC INTERFACE
B2 HERCULES
+3V3STBY → 3901 RES, 3902 RES; 2953 100n, 2954 100n → F908 → +1V8_ADC
+3V3_ADC → F909 → 2955 22u 16V; 2956–2959 100n

7801-1 GM1501-LF-CF ANA-IN
ADC_1.8: A4 A3
ADC_3.3: E3 D3 A2
AVSYNC L3
AHSYNC L4
SCL N2
SDA N1
I907 3903 100R, 3904 100R
SOG C3
R_PR+ D2
R_PR- D1
G_Y+ C2
G_Y- C1
B_PB+ B2
B_PB- B1
VGA_SCL|GPI_05
VGA_SDA|GPI_06
REDp
REDn
GREENp
GREENn
BLUEp
BLUEn
ADC_AGND: C4 D4 E1 E2 E4
ADC_DGND: A5 B4
F910

B16
7801-7 GM1501-LF-CF CTRL
3900 3K3 I904 AC16 OEXTR
FAN_SPEED C26 PWM0|GPIO_10
HD_FILTER C25 PWM1|GPIO_11
PPWR|GPIO_08 A26 PANEL-PWR-CTL
PBIAS|GPIO_09 B26 LAMP_ON_OFF
DCLK|GPIO_17 AC7 NC
PWM2|GPIO_12 D26 I903 BU_LHT_ADJ2 (RES)
FROM DC-DC CONVERTER B6
B20 TO PACIFIC-3 & B16 TO TOP CONN.

3139 123 6117.2
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2900 D1 F903 C5
2901 D2 F904 C7
2902 D2 F905 D10
2903 E1 F906 D10
2904 E2 F907 D10
2905 A4 F908 E9
2906 A4 F909 E10
2907 A4 F910 G9
2908 A4 I900 C2
2909 A5 I901 E1
2910 A5 I902 E2
2911 A5 I903 G6
2912 A5 I904 F4
2913 A5 I905 C4
2914 A6 I906 E6
2915 A6 I907 F8
2916 A6 I908 B10
2917 A7
2918 A7
2919 A7
2920 A7
2921 A8
2922 A8
2923 A8
2924 A8
2925 A8
2926 A9
2927 A9
2928 A9
2929 A9
2930 C5
2931 C5
2932 C5
2933 C5
2934 C7
2935 C7
2936 C7
2937 C8
2938 C8
2939 C8
2940 B10
2941 B10
2942 C9
2945 D10
2946 D11
2947 D11
2948 D11
2949 D11
2950 D10
2951 D11
2952 D11
2953 E8
2954 E8
2955 E10
2956 E10
2957 E11
2958 E11
2959 E11
2960 D2
3900 F4
3901 E8
3902 E8
3903 F8
3904 F8
4900 B9
5900 A1
5901 B1
5902 B1
5903 B1
5904 B1
5905 C1
5906 C1
5907 C1
5908 C3
5909 D3
5910 E3
5911 E3
7801-1 F9
7801-10 C9
7801-13 B6
7801-14 A10
7801-2 C6
7801-3 B10
7801-7 F5
7900 C1
7901 D1
F900 B2
F901 A4
F902 A7

SSB: Scaler Interface

B9 SCALER INTERFACE

B9

2A00 E3
2A01 F2
2A02 F2
2A03 C7
2A12 E6
2A13 D8
2A14 F8
3A00 E2
3A01 E2
3A02 C5
3A03 C6
3A04 C6
3A05 C6
3A06 C7
3A07 E2
3A08 E2
3A10 E6
3A11 D7
3A13 D8
3A14 D9
3A15 F9
3A16 F8
4A00 F3
4A01 F3
4A02 B6
4A03 D6
4A04 F4
4A05 F6
4A06 F8
5A00 E3
6A01 E9
7801-8 A2
7A00 E4
7A01 C6
7A02 E6
7A03 E8
7A04 F8
IA00 C7
IA03 E6
IA05 B8
IA06 C7
IA07 B6
IA08 E3
IA09 E3
IA10 F8

7801-8
GM1501-LF-CF

ACp|GPIO_G06_B6|DORED8 AE20
ACn|GPIO_G06_B7|DORED9 AF20
A3p|GPIO_G06_B4|DORED6 AE19
A3n|GPIO_G06_B5|DORED7 AF19
A2p|GPIO_G05_B1|DOGRN3 AE21
A2n|GPIO_G05_B2|DOGRN4 AF21
A1p|GPIO_G05_B4|DOGRN6 AE22
A1n|GPIO_G05_B5|DOGRN7 AF22
A0p|GPIO_G05_B6|DOGRN8 AE23
A0n|GPIO_G05_B7|DOGRN9 AF23
NC
SHIELD5|DEBLU5 AD14
SHIELD4|DEBLU2 AE13
SHIELD3|DEGRN5 AE11
SHIELD2|DEGRN4 AD11
SHIELD1|DEGRN3 AC11
SHIELD0|DEGRN2 AF10

BCp|DEGRN8 AE12 TXBC+
BCn|DEGRN9 AF13 TXBC-
B3p|DEGRN6 AF11 TXB3+
B3n|DEGRN7 AF12 TXB3-
B2p|DEBLU3 AF14 TXB2+
B2n|DEBLU4 AE14 TXB2-
B1p|DEBLU6 AF15 TXB1+
B1n|DEBLU7 AE15 TXB1-
B0p|DEBLU8 AF16 TXB0+
B0n|DEBLU9 AE16 TXB0-

LVDS

B20 TO PACIFIC3

B7 TO SCALER

BU_LHT_ADJ1

3A02 1K0

RESERVED

IA07

4A02 RES

IA05

BACKLIGHT_DIM

B20 FROM PACIFIC3

BACKLIGHT CONTROL				
	5V DC	5V PWM	3V3 DC	3V3 PWM
3A03	390R	390R	-	-
3A05	-	-	-	-
3A04	1K	1K	-	-
7A01	Y	Y	-	-
4A03	-	-	Y	Y
3A06	10K	0R	10K	0R
2A03	1u	-	1u	-

RES +5VSWI

3A03 RES

3A05 RES

7A01 SI2301DS-T1

IA06 3A06 10K IA00

BACKLIGHT_CTRL

B16 TO TOP CONNECTORS

3A04 1K0

2A03 1u0

*4A03

FOR LARGE SCREEN 37"~50"

+3V3STBY 3A11 4K7

+3V3STBY 2A13 100n 3A13 10K

+5V 3A14 4K7

7A02 BC847BW

7A03 BC847BW

STANDBY

6A01 BZX384-C3V9

B2 FROM HERCULES

SC_STANDBY

3A10 10K IA03 2A12 10n

4A05

4A06

FOR PDP ONLY

+3V3SW 3A07 10K 3A08 10K

+3V3SW 5A00

2A00 100n

7A00 PCA9515ADP

VCC

SDA_DMA_BUS1_DISP 3A00 68R IA08 6 SDA1 SDA0 3 SDA_IO

SCL_DMA_BUS1_DISP 3A01 68R IA09 7 SCL1 SCL0 2 SCL_IO

1 NC NC GND EN 5 4A04 (PDP) BUF_ENABLE

4

2A01 100p 2A02 100p

4A00_RES

4A01_RES

FOR PDP DVB ONLY

LS|PDP_DVB_SEMISTANDBY

7A04 BC847BW

3A16 10K IA10 2A14 10n 3A15 3K3

RESERVED

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SSB: SDRAM

B10 SDRAM

+2V5_DDR

2B01 47u 16V
2B02 47u 6.3V
2B03 100n
2B04 100n
2B05 100n
2B06 100n
2B07 100n
2B08 100n
2B09 100n
2B10 100n
2B11 100n
2B12 100n
2B13 100n
2B14 100n
2B15 100n
2B16 100n

B 7 TO/FROM SCALER

+2V5_DDR
3B01 10K 1%
FB01
FSVREF
3B02 10K 1%

2B19 RES
2B18 16V 22u
2B17 100n

+2V5_DDR

7B01 K4D263238F-UC50
SDRAM 1M X 32 X 4

VREF VDD VDDQ VSS VSSQ

FSRAS
FSCAS
FSWE
FSCLK+
FSCLK-
FSCKE
3B03 150R 1%
IB03
IB02
FSDQM(0)
FSDQM(1)
FSDQM(2)
FSDQM(3)
FSBKSEL(0)
FSBKSEL(1)
FSADDR(0)
FSADDR(1)
FSADDR(2)
FSADDR(3)
FSADDR(4)
FSADDR(5)
FSADDR(6)
FSADDR(7)
FSADDR(8)
FSADDR(9)
FSADDR(10)
FSADDR(11)
RFU
MCL
NC
DQS
FSDQS

FSDATA(0)
FSDATA(1)
FSDATA(2)
FSDATA(3)
FSDATA(4)
FSDATA(5)
FSDATA(6)
FSDATA(7)
FSDATA(8)
FSDATA(9)
FSDATA(10)
FSDATA(11)
FSDATA(12)
FSDATA(13)
FSDATA(14)
FSDATA(15)
FSDATA(16)
FSDATA(17)
FSDATA(18)
FSDATA(19)
FSDATA(20)
FSDATA(21)
FSDATA(22)
FSDATA(23)
FSDATA(24)
FSDATA(25)
FSDATA(26)
FSDATA(27)
FSDATA(28)
FSDATA(29)
FSDATA(30)
FSDATA(31)

B 7 TO/FROM SCALER

2B01 A1
2B02 A1
2B03 A2
2B04 A2
2B05 A2
2B06 A3
2B07 A3
2B08 A3
2B09 A3
2B10 A4
2B11 A4
2B12 A4
2B13 A5
2B14 A5
2B15 A5
2B16 A5
2B17 B4
2B18 B4
2B19 B4
3B01 B3
3B02 B3
3B03 C3
7B01 C4
FB01 B3
IB02 C3
IB03 C3

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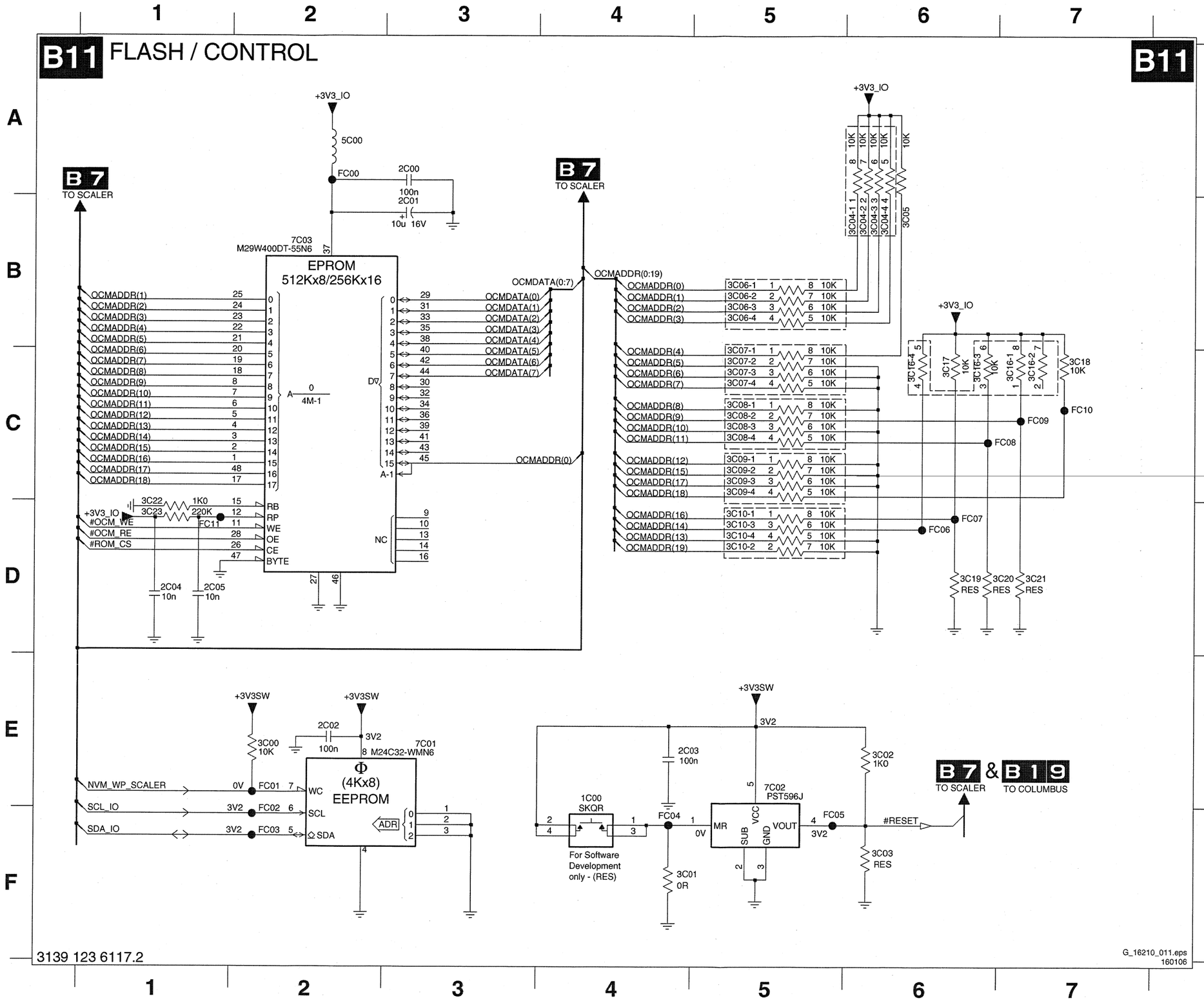
SSB: Flash / Control



1C00 E4
2C00 A3
2C01 B3
2C02 E2
2C03 E4
2C04 D1
2C05 D1
3C00 E2
3C01 F4
3C02 E6
3C03 F6
3C04-1 B6
3C04-2 B6
3C04-3 B6
3C04-4 B6
3C05 B6
3C06-1 B5
3C06-2 B5
3C06-3 B5
3C06-4 B5
3C07-1 C5
3C07-2 C5
3C07-3 C5
3C07-4 C5
3C08-1 C5
3C08-2 C5
3C08-3 C5
3C08-4 C5
3C09-1 C5
3C09-2 C5
3C09-3 C5
3C09-4 C5
3C10-1 D5
3C10-2 D5
3C10-3 D5
3C10-4 D5
3C16-1 C7
3C16-2 C7
3C16-3 C6
3C16-4 C6
3C17 C6
3C18 C7
3C19 D6
3C20 D7
3C21 D7
3C22 D1
3C23 D1
5C00 A2
7C01 E3
7C02 E5
7C03 B2
FC00 A2
FC01 E2
FC02 F2
FC03 F2
FC04 F4
FC05 F5
FC06 D6
FC07 D6
FC08 C7
FC09 C7
FC10 C7
FC11 D1

SSB: HDMI

2D00 A10 2D01 B10 2D02 F2 2D08 B1 2D09 B1
2D10 B2 2D11 B2 2D12 B1 2D13 B1 2D14 B2
2D15 B2 2D16 B2 2D17 B2 2D18 B2 2D21 E2
2D22 E2 2D23 E2 2D24 E2 2D25 E2 2D29 C1
2D30 D1 2D31 D1 2D32 E1 2D34 E2 2D35 E2
2D36 E2 2D37 E2 2D38 E2 2D39 E2 2D42 G2
2D43 G2 2D44 G2 2D45 H1 2D46 H2 2D47 I2
2D48 I3 2D49 H5 2D50 G9 2D51 G9 2D52 G10
2D53 G10 2D54 G11 2D55 G11 2D56 H10 2D57 H10
2D58 I11 2D59 I11 3D00 A9 3D01 A10 3D02 B9
3D03 B10 3D05 I4 3D06 I4 3D07 E10 3D08 E10
3D09 A10 3D10 B10 3D11 E13 3D15-1 C14 3D15-2 C14
3D15-3 C14 3D15-4 C14 3D16-1 D14 3D16-2 D14 3D16-3 D14
3D16-4 C14 3D17-1 B14 3D17-2 B14 3D17-3 B14 3D17-4 A14
3D18 F10 3D19 F9 3D20-1 G8 3D20-2 H8 3D20-3 H8
3D20-4 G8 3D21-1 B14 3D21-2 B14 3D21-3 B14 3D21-4 B14
3D22 E14 3D23 D14 3D24 H11 3D26 H11 3D27 H4
4D02 G8 4D03 H8 4D04 I4 4D05 I4 4D06 I4
5D00 F1 5D01 G1 5D02 G1 5D03 H2 5D04 I2
5D05 H2 5D06 F1 7D00 A8 7D01 B8 7D02 H1
7D03-1 A11 7D03-2 G6 7D03-3 A5 7D04 G9 7D05 H4
FD01 B9 FD02 B9 FD03 C9 FD04 C9 FD05 E15
FD06 E15 FD07 G1 FD08 G1 FD09 G1 FD10 I2
FD11 I2 FD12 F1 FD13 G9 FD14 H2 FD15 G9
FD17 A9 ID00 H1 ID01 H2 ID08 H10 ID09 H11
ID10 G10 ID11 H11 ID13 E15 ID20 E10 ID22 E10
ID19 I14 ID20 A9 ID24 I5 ID25 I4
ID28 G8

B12 HDMI

7D03-3 TDA9975 SUPPLY

VDDA_3V3PLL, VDDA_1V8 → VDDAPLL, VDD18APLL
VDDA_3V3 → VDDR, VDDG, VDDB, VDDBIAS, VDDSOG, VDDFRO, VDDPLL, VDD18PLL
VDDD_1V8 → VDD18HDMI, VDD18RRX
VDDC_1V8 → VDDRX2A, VDDRX2B, VDDRX1A, VDDRX1B, VDDRX0A, VDDRX0B, VDDRXC, VDD18CORE
VDDL_3V3 → OTP7V
VDDD_3V3 → VDDIN, VDDQ0..VDDQ9
GNDAVI, GNDAPLL, GNDHDMI, GNDCORE, GNDI2C, GNDOUT
THERMAL GROUNDS

FROM DIGITAL-IO B14 / B22

+5VHDMI_A, +5VHDMI_B
7D00 M24C02-WMN6 (256x8) EEPROM, ADR, WC, SCL, SDA
7D01 M24C02-WMN6 (256x8) EEPROM, ADR, WC, SCL, SDA
DOC_SCLA / DOC_SDAA → FD01 / FD02
DOC_SCLB / DOC_SDAB → FD03 / FD04
RX2+A, RX2-A, RX1+A, RX1-A, RX0+A, RX0-A, RXC+A, RXC-A
RX2+B, RX2-B, RX1+B, RX1-B, RX0+B, RX0-B, RXC+B, RXC-B
3D07 1K0 1%, 3D08 1K0 1% → ID22 → RRXB, RRXA

7D03-1 TDA9975 IN/OUT

RBIAS, HCSYNC, VSYNC, SOG, R/Pr, G/Y, B/Pb, Rref, Gref, Bref
VPA0..VPA10, VPB0..VPB11, VPC0..VPC11, VCLK, HREF, VREF, FREF, CS, HS, VS, /VAI, DE, PL
HSCL A, HSDA A, HSCL B, HSDA B

HDMI_CbCr(0:7): 3D17-4 4, 3D17-3 3, 3D17-2 2, 3D17-1 1, 3D21-4 4, 3D21-3 3, 3D21-2 2, 3D21-1 1 (5 33R / 6 33R / 7 33R / 8 33R)
HDMI_Y(0:7): 3D15-4 4, 3D15-3 3, 3D15-2 2, 3D15-1 1, 3D16-4 4, 3D16-3 3, 3D16-2 2, 3D16-1 1 (5 33R / 6 33R / 7 33R / 8 33R)
3D23 33R → ID14 HDMI_VCLK
FD05 H_HDMI, FD06 V_HDMI
3D22 33R → ID13 HDMI_INT, HDMI_VDV, HDMI_PL
3D11 5K6

B7 TO SCALER

7D03-2 TDA9975 CTRL

TM0..TM3, AUX0..AUX7, CCLK, CKEXT, COAST, GCP, CLAMP, PD, MCLK, /OE, SCL, SDA
TDI, TDO, TRST, TMS, TCK, OR G/Y, OR B/U, OR R/V, X0, X1, X2, CTL0..CTL3, AP0..AP3, ACLK, WS, A0, DIS

HDMI_PD ← B18
ADC_XOUT → ID25
SCL_IO, SDA_IO → 3D06 100R, 3D05 100R

AUDIO DAC

+3V3SW, 3D19 1R0, 3D18 1R0
2D50 47u 6.3V, 2D51 100n, FD13
2D52 47u 6.3V, 2D53 100n
7D04 UDA1334ATS: BCK, SYSCLK, PLL1, DATAI, PLL0, WS, MUTE, VREF_DAC, VOUTL, VOUTR, DEEM, CLKOUT, VDDA, VDDD, VSSA, VSSD
3D20-1 6 33R, 3D20-4 5 33R, 3D20-3 6 33R, 3D20-2 7 33R → FD15 → ID10
2D54 47u 6.3V, 2D55 100n
ID08 → 2D56 10u 16V, ID09
ID11 ← 2D57 10u 16V
3D26 220R, 3D24 220R
2D59 10n, 2D58 10n
ID18 HDMI_AudioINR, ID19 HDMI_AudioINL → B2 TO HERCULES

5D06 FD12, 5D00 FD07, 5D01 FD08, 5D02 FD09 → VDDA_3V3PLL, VDDA_3V3, VDDD_3V3, VDDI_3V3
2D02 22u 6.3V, 2D42 22u 6.3V, 2D43 22u 6.3V, 2D44 22u 6.3V
7D02 LD1086D2T18 → ID00, 5D05 FD14 120R → VDDC_1V8; 2D45 100n, 2D46 47u 6.3V
5D03 FD10, 5D04 FD11 120R → VDDA_1V8, VDDD_1V8; 2D47 22u 6.3V, 2D48 22u 6.3V
7D05 25607TK, 13M5, 3D27 3K3, 2D49 1n0

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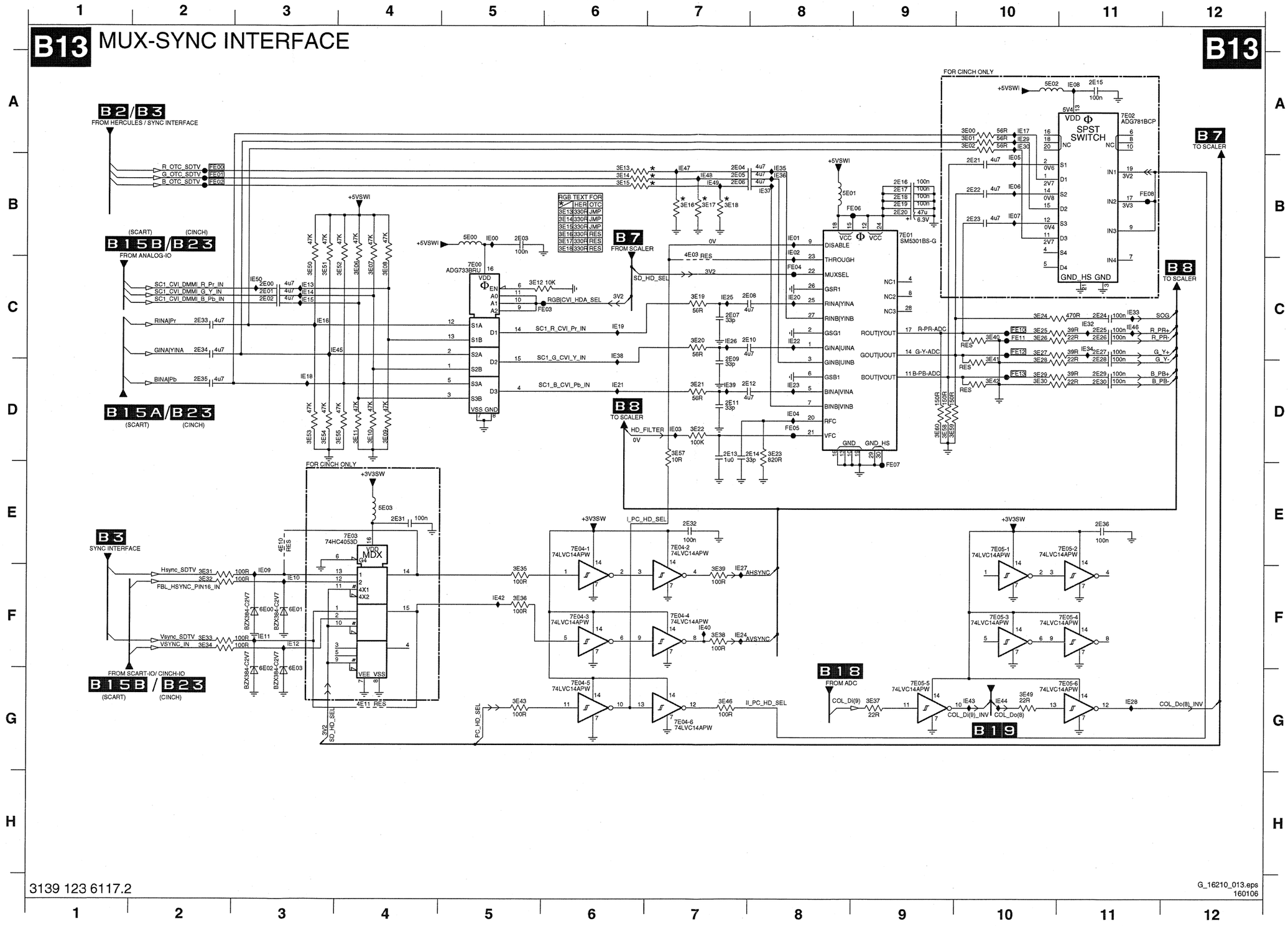
SSB: MUX-Sync Interface

B13 MUX-SYNC INTERFACE



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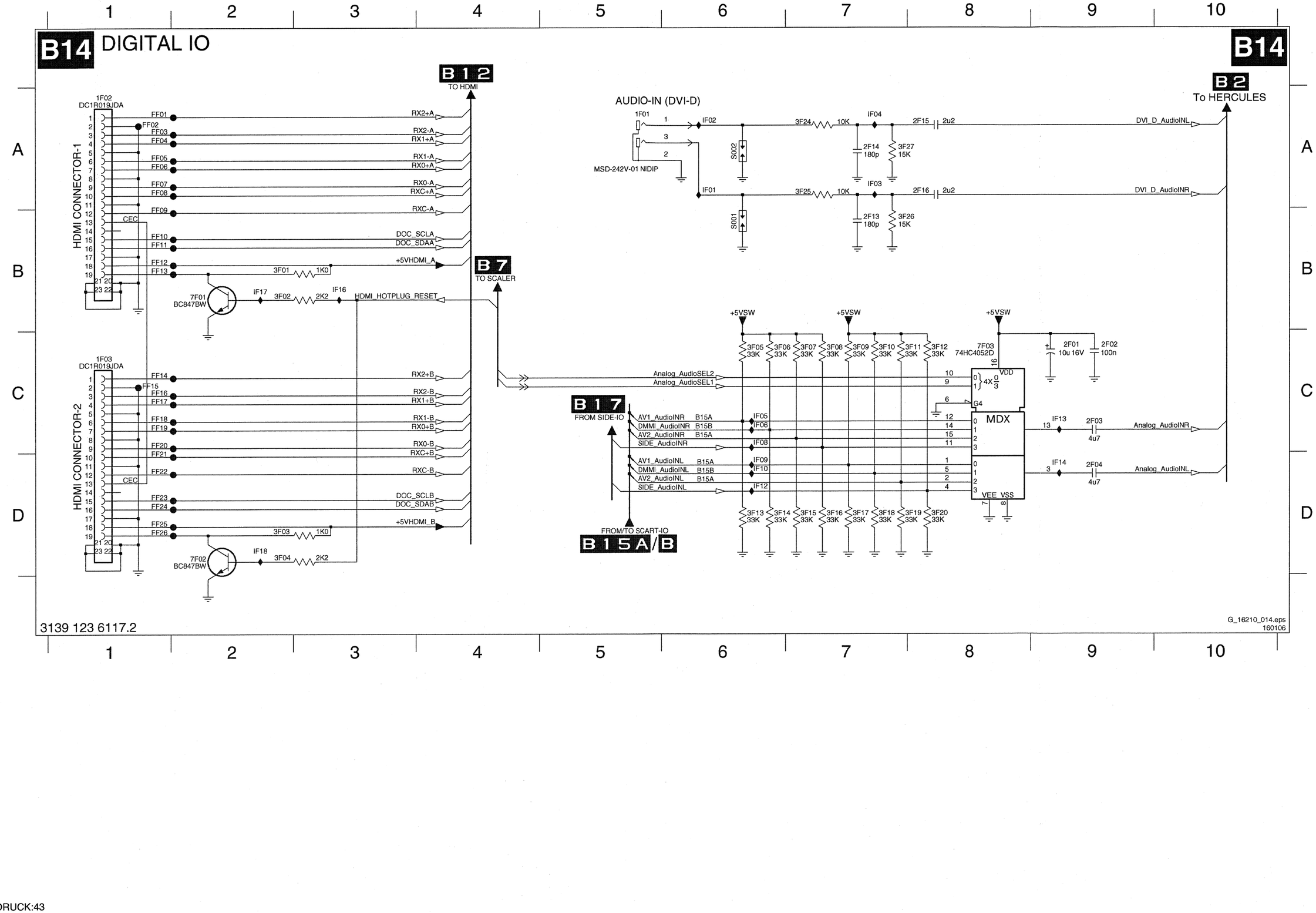
2E00	C3	7E00	C5
2E01	C3	7E01	B9
2E02	C3	7E02	A11
2E03	B5	7E03	E4
2E04	B7	7E04-1	E6
2E05	B7	7E04-2	E7
2E06	B7	7E04-3	F6
2E07	C7	7E04-4	F7
2E08	C8	7E04-5	G6
2E09	D7	7E04-6	G7
2E10	C8	7E05-1	E10
2E11	D7	7E05-2	E11
2E12	D8	7E05-3	F10
2E13	D7	7E05-4	F11
2E14	D8	7E05-5	G9
2E15	A11	7E05-6	G11
2E16	B9	FE00	B2
2E17	B9	FE01	B2
2E18	B9	FE02	B2
2E19	B9	FE03	C6
2E20	B9	FE04	C8
2E21	B10	FE05	D8
2E22	B10	FE06	B9
2E23	B10	FE07	E9
2E24	C11	FE08	B11
2E25	C11	FE10	C10
2E26	C11	FE11	C10
2E27	C11	FE12	C10
2E28	D11	FE13	D10
2E29	D11	IE00	B5
2E30	D11	IE01	B8
2E31	E4	IE02	B8
2E32	E7	IE03	D7
2E33	C2	IE04	D8
2E34	C2	IE05	B10
2E35	D2	IE06	B10
2E36	E11	IE07	B10
3E00	A10	IE08	A11
3E01	A10	IE09	F3
3E02	A10	IE10	F3
3E06	C4	IE11	F3
3E07	C4	IE12	F3
3E08	C4	IE13	C3
3E09	D4	IE14	C3
3E10	D4	IE15	C3
3E11	D4	IE16	C3
3E12	C5	IE17	A10
3E13	B6	IE18	D3
3E14	B6	IE19	C6
3E15	B6	IE20	C8
3E16	B7	IE21	D6
3E17	B7	IE22	C8
3E18	B7	IE23	D8
3E19	C7	IE24	F7
3E20	C7	IE25	C7
3E21	D7	IE26	C7
3E22	D7	IE27	F7
3E23	D8	IE28	G11
3E24	C10	IE29	A10
3E25	C10	IE30	A10
3E26	C10	IE32	C11
3E27	C10	IE33	C11
3E28	D10	IE34	C11
3E29	D10	IE35	B8
3E30	D10	IE36	B8
3E31	F2	IE37	B8
3E32	F2	IE38	C6
3E33	F2	IE39	D7
3E34	F2	IE40	F7
3E35	F5	IE42	F5
3E36	F5	IE43	G10
3E37	G9	IE44	G10
3E38	F7	IE45	C4
3E39	F7	IE46	C11
3E40	C10	IE47	B7
3E41	D10	IE48	B7
3E42	D10	IE49	B7
3E43	G5	IE50	C3
3E46	G7		
3E49	G10		
3E50	C3		
3E51	C3		
3E52	C4		
3E53	D3		
3E54	D3		
3E55	D4		
3E57	D7		
3E58	D9		
3E59	D9		
3E60	D9		
4E03	B7		
4E10	E3		
4E11	G4		
5E00	B5		
5E01	B8		
5E02	A10		
5E03	E4		
6E00	F3		
6E01	F3		
6E02	G3		
6E03	G3		

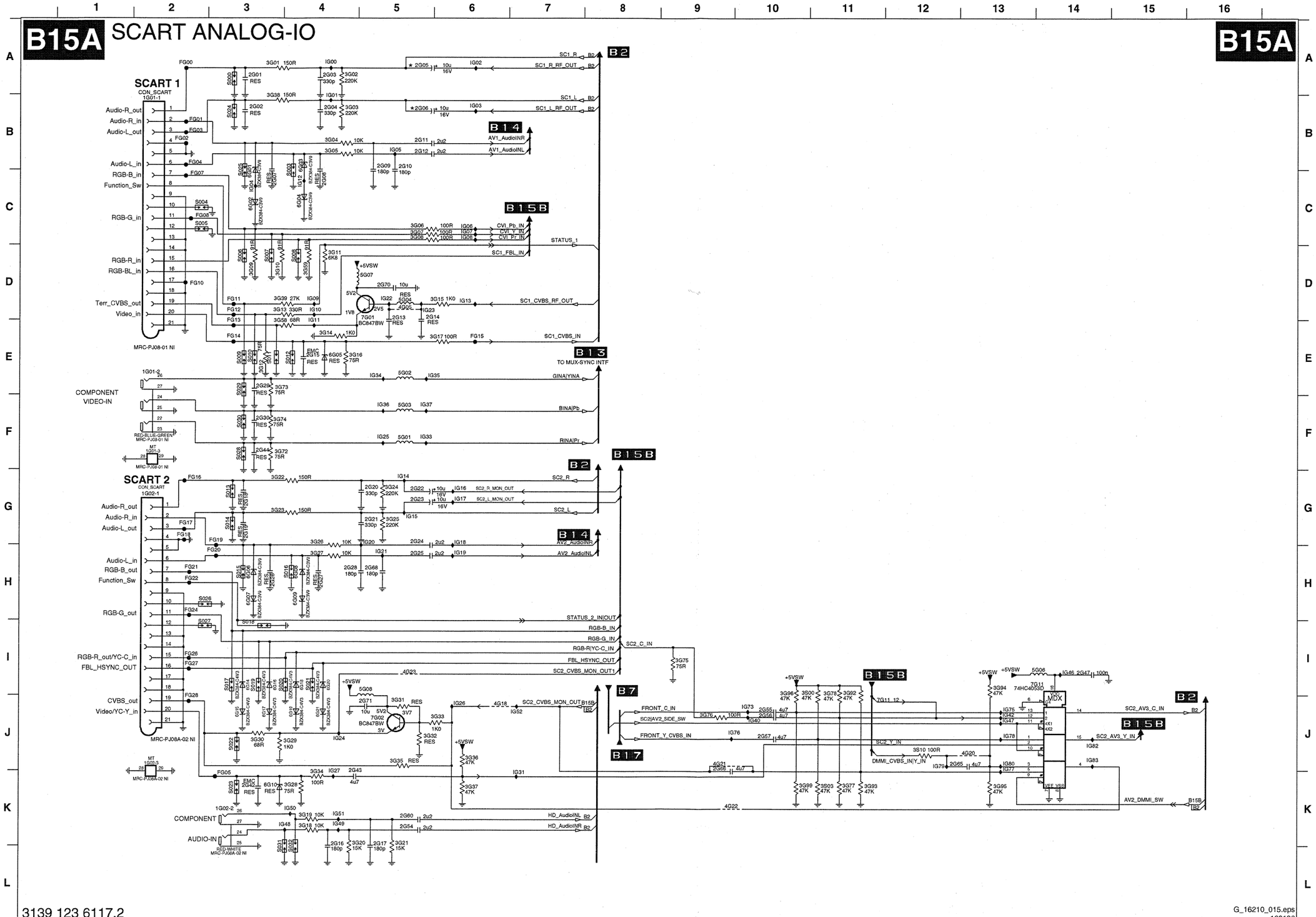
SSB: Digital I/O

1F01 A5 2F01 C9 2F04 D9 2F15 A8 3F02 B2 3F05 C6 3F08 C7 3F11 C8 3F14 D6 3F17 D7 3F20 D8 3F26 A7 7F02 D2 FF02 A1 FF05 A1 FF08 A1 FF11 B1 FF14 C1 FF17 C1 FF20 C1 FF23 D1 FF26 D1 IF03 A7 IF06 C6 IF10 D6 IF14 D9 IF18 D2
1F02 A1 2F02 C9 2F13 A7 2F16 A8 3F03 D2 3F06 C6 3F09 C7 3F12 C8 3F15 D7 3F18 D7 3F24 A7 3F27 A7 7F03 C8 FF03 A1 FF06 A1 FF09 B1 FF12 B1 FF15 C1 FF18 C1 FF21 D1 FF24 D1 IF01 A6 IF04 A7 IF08 C6 IF12 D6 IF16 B3 S001 A6
1F03 C1 2F03 C9 2F14 A7 3F01 B2 3F04 D2 3F07 C7 3F10 C7 3F13 D6 3F16 D7 3F19 D8 3F25 A7 7F01 B2 FF01 A1 FF04 A1 FF07 A1 FF10 B1 FF13 B1 FF16 C1 FF19 C1 FF22 D1 FF25 D1 IF02 A6 IF05 C6 IF09 D6 IF13 C9 IF17 B2 S002 B6



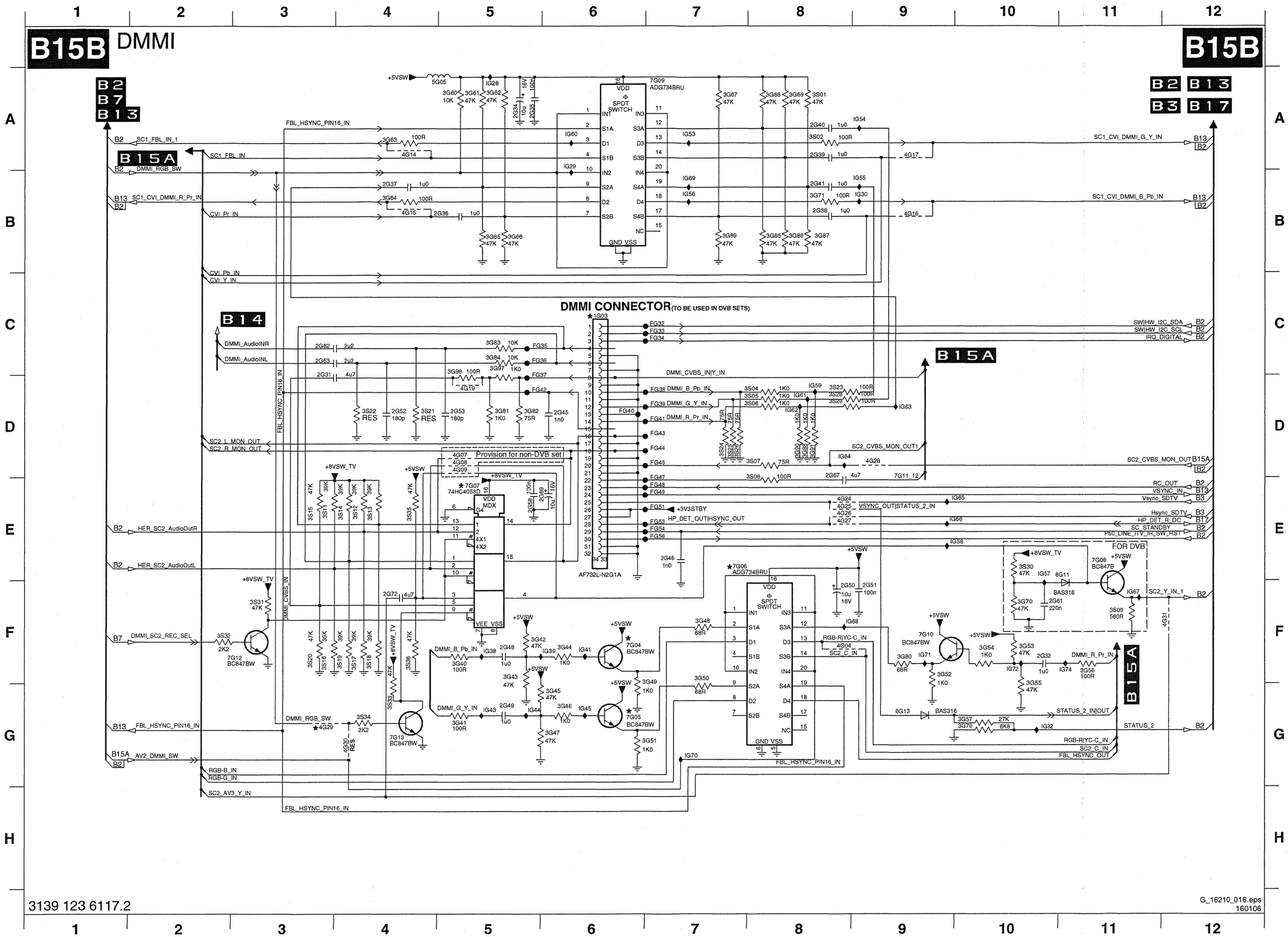
SSB: SCART Analog I/O

B15A SCART ANALOG-IO



SSB: DMMI

B15B DMMI



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2G31	D3	3S35	E4
2G32	F10	3S36	F4
2G34	A5	4G04	F8
2G35	A5	4G07	D5
2G36	B4	4G08	D5
2G37	B4	4G09	D5
2G38	B8	4G14	A4
2G39	A8	4G15	B4
2G40	A8	4G16	B9
2G41	B8	4G17	A9
2G45	D6	4G19	D5
2G46	E7	4G24	E8
2G48	F5	4G25	E8
2G49	G5	4G26	E8
2G50	F9	4G27	E8
2G51	F9	4G28	D9
2G52	D4	4G29	G3
2G53	D5	4G30	G4
2G58	E5	4G31	F12
2G61	F10	5G05	A4
2G62	C3	6G11	E10
2G63	C3	6G13	G9
2G67	E8	7G04	F6
2G69	E6	7G05	G6
2G72	F4	7G06	E7
3G40	F5	7G07	E5
3G41	G5	7G08	E11
3G42	F5	7G09	A7
3G43	F5	7G10	F9
3G44	F6	7G12	F2
3G45	G6	7G13	G4
3G46	G6	FG32	C7
3G47	G6	FG33	C7
3G48	F7	FG34	C7
3G49	G6	FG35	C5
3G50	F7	FG36	C5
3G51	G6	FG37	D5
3G52	F9	FG38	D7
3G53	F10	FG39	D7
3G54	F10	FG40	D6
3G55	G10	FG41	D7
3G56	F11	FG42	D5
3G57	G10	FG43	D7
3G60	A5	FG44	D7
3G61	A5	FG45	D7
3G62	A5	FG47	E7
3G63	A4	FG48	E7
3G64	B4	FG49	E7
3G65	B5	FG51	E7
3G66	B5	FG53	E7
3G67	A7	FG54	E7
3G68	A8	FG56	E7
3G69	A8	IG28	A5
3G70	F10	IG29	A6
3G71	B8	IG30	B9
3G79	G10	IG32	G10
3G80	F9	IG38	F5
3G81	D5	IG39	F6
3G82	D5	IG41	F6
3G83	C5	IG43	G5
3G84	C5	IG44	G5
3G85	B8	IG45	G6
3G86	B8	IG53	A7
3G87	B8	IG54	A9
3G88	D8	IG55	B9
3G89	B7	IG56	B7
3G90	D8	IG57	E10
3G91	D8	IG58	E10
3G97	C5	IG59	E6
3G98	C5	IG60	A6
3S01	A8	IG61	D8
3S02	A8	IG62	D8
3S04	D8	IG63	D9
3S05	D8	IG64	D8
3S06	D8	IG65	E10
3S07	D8	IG66	E10
3S08	E8	IG67	F11
3S09	F11	IG68	F9
3S11	E3	IG69	B7
3S12	E4	IG70	G7
3S13	E4	IG71	F9
3S14	E4	IG72	F10
3S15	E3	IG74	F11
3S16	F3		
3S17	F4		
3S18	F4		
3S19	F4		
3S20	F3		
3S21	D4		
3S22	D4		
3S23	D8		
3S24	D7		
3S25	D7		
3S26	D7		
3S28	D8		
3S29	D8		
3S30	E10		
3S31	F3		
3S32	F2		
3S33	G4		

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SSB: Top Connectors

B16 TOP CONNECTORS

B16

FOR LARGE SCREEN 37"-50"

B6 FROM SCALER INTERFACE

FROM SCALER B8

(1M03) 1J00

UFD CONTROL

IJ01 POR (NC) LAMP_ON_OFF_1
IJ02
IJ03
IJ04
TEMP_SENSOR (NC)
IJ05 STANDBY_1
IJ06 NC
IJ07 POWER_UP_OK_1

5J05 RES FJ32 FAN_SPEED

PROTECT_AUD

3J06 RES POWER_UP_OK IJ12

FROM SCALER B7

4J02 RES
2J16 RES
2J33 RES
2J20 RES
2J34 RES

B5 FROM AUDIO

PROTECT_AUD

AUDIO-L FJ28 5J01 FJ10
AUDIO-R FJ29 5J02 FJ12
FJ11
AUDIO-SW (NC)
3V3 SOUND_ENABLE_1 FJ13
3V3 POR_AUDIO FJ14

(1M52) 1J04
B9B-PH-K-S(LF)

2J26 100p 2J27 100p 2J28 100p 2J29 100p 2J36 1n0

TO/FROM 1002 OF CLASS-D AUDIO AMPLIFIER

C

(1M46) 1J01

UFD SUPPLY

FJ00
FJ33
FJ01 (NC)
FJ02
5V(NC)
FJ03
FJ04 1J08 +5V_UFD
+33V_TUN(NC)
FJ05 NC
FJ39

4J01
4J03 RES
2J31 1n0
1J07 3A T

B6 TO DC-DC CONVERTER

5J04 FJ31 +5V

B20 FROM PACIFIC3

RESERVED

B_LT_PWM FJ15
G_LT_PWM FJ16
R_LT_PWM FJ17
FJ27
B_RT_PWM FJ18
G_RT_PWM FJ19
R_RT_PWM FJ20

1J05
B7B-PH-K-S(LF)

AMBIENT LIGHT (TOP)

2J04 100p 2J05 100p 2J06 100p 2J07 100p 2J08 100p 2J09 100p

B_LB_PWM FJ21
G_LB_PWM FJ22
R_LB_PWM FJ23
FJ30
B_RB_PWM FJ24
G_RB_PWM FJ25
R_RB_PWM FJ26

1J06
B7B-PH-K-S(LF)

AMBIENT LIGHT (BOTTOM)

2J10 100p 2J11 100p 2J12 100p 2J13 100p 2J14 100p 2J15 100p

1J02 1 FJ34 VP
2 GND_AUDIO
3 FJ06
4 FJ38
5 FJ35
6 FJ36
7 FJ37
8 FJ40 FJ07
9 IJ08
10 IJ09
11 IJ10
12 IJ11

B12P-PH-K-S(LF)

TO/FROM PSU (SUPPLY FOR LCD) 26"-32"

3V2 +3V3STBY

+12V_UFD

5J03 POWER_DOWN 11V6 +12VSW

3J05 68R IJ14 STANDBY 3V1
3J03 68R IJ15 BACKLIGHT_CTRL
3J04 68R IJ13 LAMP_ON_OFF 3V2

B9 FROM SCALER INTERFACE

FROM SCALER B8

2J30 1n0
2J02 1n0
2J35 1n0
2J18 100p
2J19 100p
2J17 1n0
2J22 100p
2J23 100p
2J21 100p

C

TO/FROM 1003 OF CLASS-D AUDIO AMP (+18V / +24V)

1J03 B3B-PH-K-S(LF)
FJ08 VP
FJ09
GND_AUDIO

2J03 1n0

GND_AUDIO

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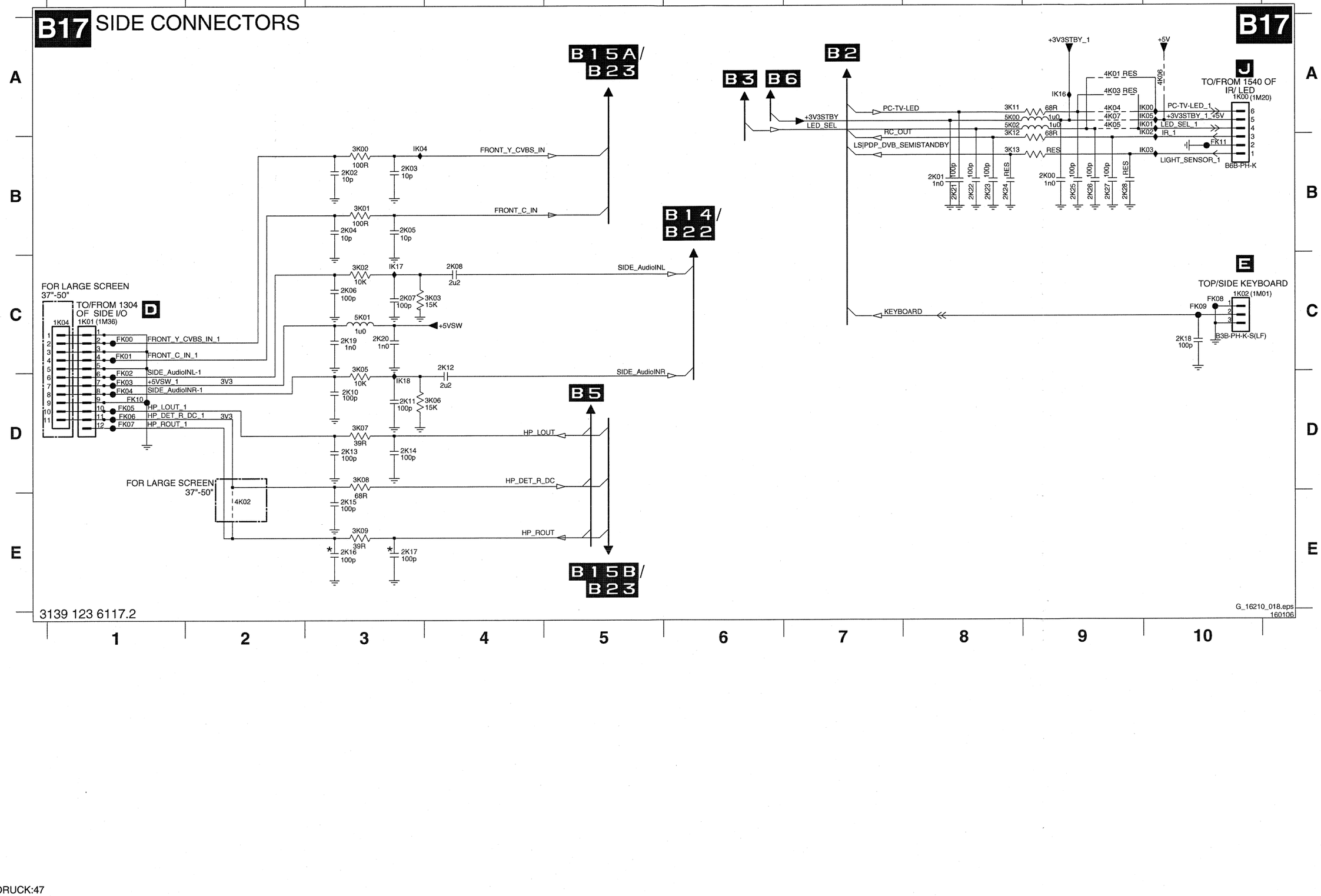
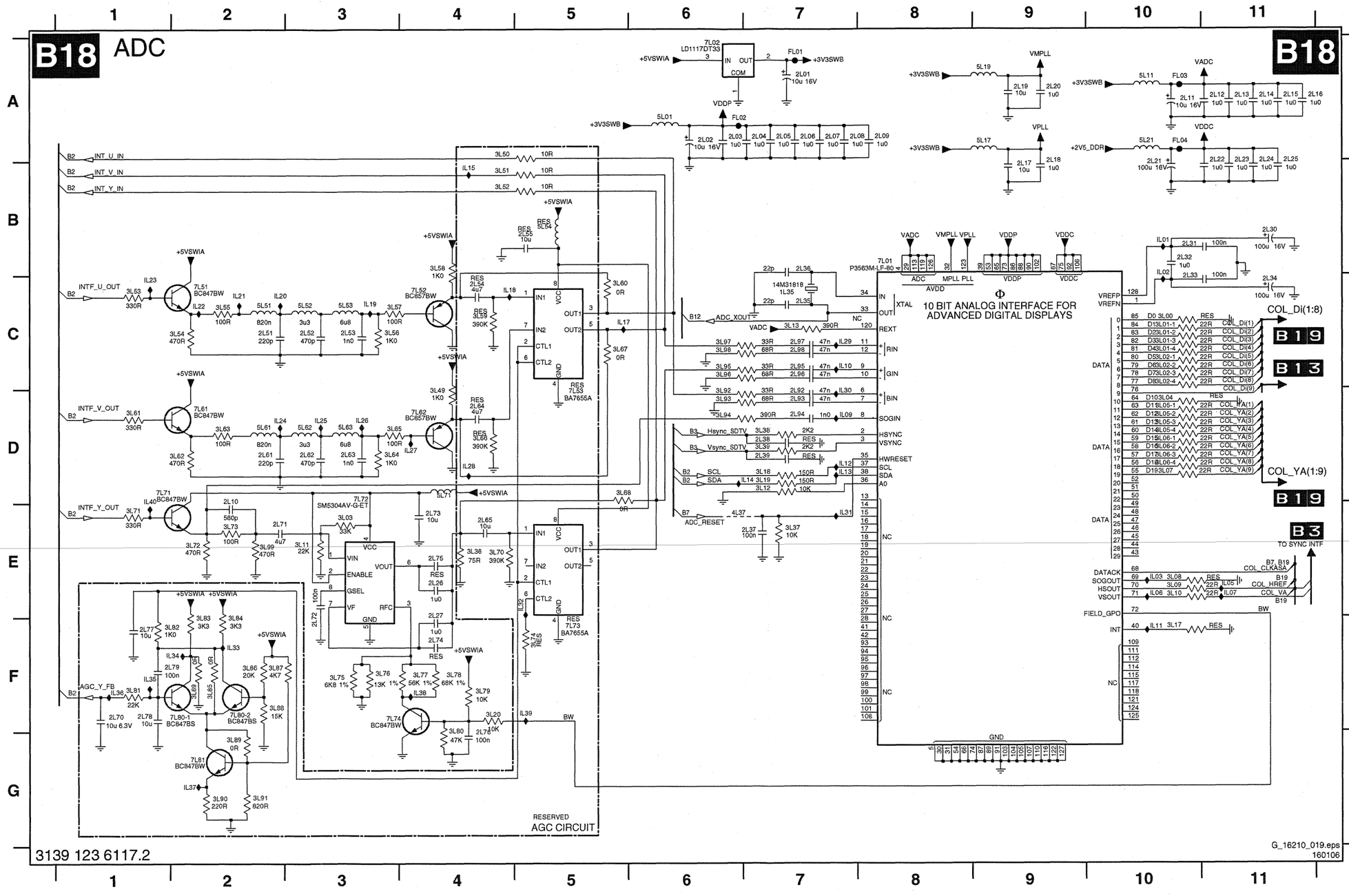
1J00 A1 FJ23 E7
1J01 C1 FJ24 E7
1J02 D1 FJ25 E7
1J03 F1 FJ26 E7
1J04 B8 FJ27 D8
1J05 D8 FJ28 B6
1J06 E8 FJ29 B6
1J07 D2 FJ30 E8
1J08 C2 FJ31 C3
2J02 F2 FJ32 B3
2J03 F2 FJ33 C1
2J04 D6 FJ34 D1
2J05 D7 FJ35 E1
2J06 D7 FJ36 E1
2J07 D7 FJ37 E1
2J08 D7 FJ38 E1
2J09 D7 FJ39 D1
2J10 F6 FJ40 E1
2J11 F7 IJ01 B1
2J12 F7 IJ02 B1
2J13 F7 IJ03 B1
2J14 F7 IJ04 B1
2J15 F7 IJ05 B1
2J16 C2 IJ06 B1
2J17 F3 IJ07 B1
2J18 F2 IJ08 E2
2J19 F3 IJ09 E2
2J20 C3 IJ10 E2
2J21 F3 IJ11 E2
2J22 F3 IJ12 B4
2J23 F3 IJ13 E3
2J26 C6 IJ14 E3
2J27 C7 IJ15 E3
2J28 C7
2J29 C7
2J30 F2
2J31 D2
2J33 C2
2J34 C3
2J35 F2
2J36 C7
3J03 E3
3J04 E3
3J05 E3
3J06 B3
4J01 D2
4J02 B2
4J03 D2
5J01 B7
5J02 B7
5J03 E2
5J04 C2
5J05 B3
FJ00 C1
FJ01 C1
FJ02 C1
FJ03 C1
FJ04 C1
FJ05 D1
FJ06 E1
FJ07 E2
FJ08 F1
FJ09 F2
FJ10 B7
FJ11 B7
FJ12 B7
FJ13 B7
FJ14 B7
FJ15 D7
FJ16 D7
FJ17 D7
FJ18 D7
FJ19 D7
FJ20 D7
FJ21 E7
FJ22 E7

SSB: Side Connectors

1K00 A10	1K04 C1	2K02 B3	2K05 B3	2K08 C4	2K12 C4	2K15 E3	2K18 C10	2K21 B8	2K24 B8	2K27 B9	3K01 B3	3K05 C3	3K08 D3	3K12 B8	4K02 E2	4K05 A9	5K00 A8	FK00 C1	FK03 D1	FK06 D1	FK09 C10	IK00 A10	IK03 B10	IK16 A9
1K01 C1	2K00 B9	2K03 B3	2K06 C3	2K10 D3	2K13 D3	2K16 E3	2K19 C3	2K22 B8	2K25 B9	2K28 B9	3K02 C3	3K06 D4	3K09 E3	3K13 B8	4K03 A9	4K06 A10	5K01 C3	FK01 C1	FK04 D1	FK07 D1	FK10 D1	IK01 A10	IK04 B3	IK17 C3
1K02 C10	2K01 B8	2K04 B3	2K07 C3	2K11 D3	2K14 D3	2K17 E3	2K20 C3	2K23 B8	2K26 B9	3K00 B3	3K03 C4	3K07 D3	3K11 A8	4K01 A9	4K04 A9	4K07 A9	5K02 A8	FK02 D1	FK05 D1	FK08 C10	FK11 B10	IK02 A10	IK05 A10	IK18 D3



SSB: ADC



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2L02 A6	3L12 D7	7L80-2 F2
2L03 A6	3L13 C7	7L81 G2
2L04 A7	3L17 F10	FL01 A7
2L05 A7	3L18 D7	FL02 A6
2L06 A7	3L19 D7	FL03 A10
2L07 A7	3L20 F4	FL04 A10
2L08 A7	3L36 E4	IL01 B10
2L09 A8	3L37 E7	IL02 B10
2L10 D2	3L38 D7	IL03 E10
2L11 A10	3L39 D7	IL05 E11
2L12 A11	3L49 C4	IL06 E10
2L13 A11	3L50 A4	IL07 E11
2L14 A11	3L51 B4	IL09 D7
2L15 A11	3L52 B4	IL10 C7
2L16 A11	3L53 C1	IL11 F10
2L17 B9	3L54 C2	IL12 D7
2L18 A9	3L55 C2	IL13 D7
2L19 A9	3L56 C3	IL14 D7
2L20 A9	3L57 C3	IL15 B4
2L21 A10	3L58 B4	IL17 C5
2L22 A11	3L59 C4	IL18 C4
2L23 A11	3L60 C5	IL19 C3
2L24 A11	3L61 D1	IL20 C2
2L25 A11	3L62 D2	IL21 C2
2L26 E4	3L63 D2	IL22 C2
2L27 E4	3L64 D3	IL23 C1
2L30 B11	3L65 D3	IL24 D2
2L31 B10	3L66 D4	IL25 D3
2L32 B10	3L67 C5	IL26 D3
2L33 C10	3L68 D5	IL27 D4
2L34 C11	3L69 F2	IL28 D4
2L35 C7	3L70 E4	IL29 C7
2L36 B7	3L71 E1	IL30 D7
2L37 E7	3L72 E2	IL31 E7
2L38 D7	3L73 E2	IL32 E5
2L39 D7	3L74 F5	IL33 F2
2L51 C2	3L75 F3	IL34 F2
2L52 C3	3L76 F3	IL35 F1
2L53 C3	3L77 F4	IL36 F1
2L54 C4	3L78 F4	IL37 G2
2L55 B5	3L79 F4	IL38 F4
2L61 D2	3L80 F4	IL39 F5
2L62 D3	3L81 F1	IL40 D1
2L63 D3	3L82 F2	
2L64 D4	3L83 E2	
2L65 E4	3L84 E2	
2L70 F1	3L85 F2	
2L71 E2	3L86 F2	
2L72 F3	3L87 F2	
2L73 E4	3L88 F2	
2L74 F4	3L89 G2	
2L75 E4	3L90 G2	
2L76 F4	3L91 G2	
2L77 F1	3L92 D6	
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2L79 F2	3L94 D6	
2L92 D7	3L95 C6	
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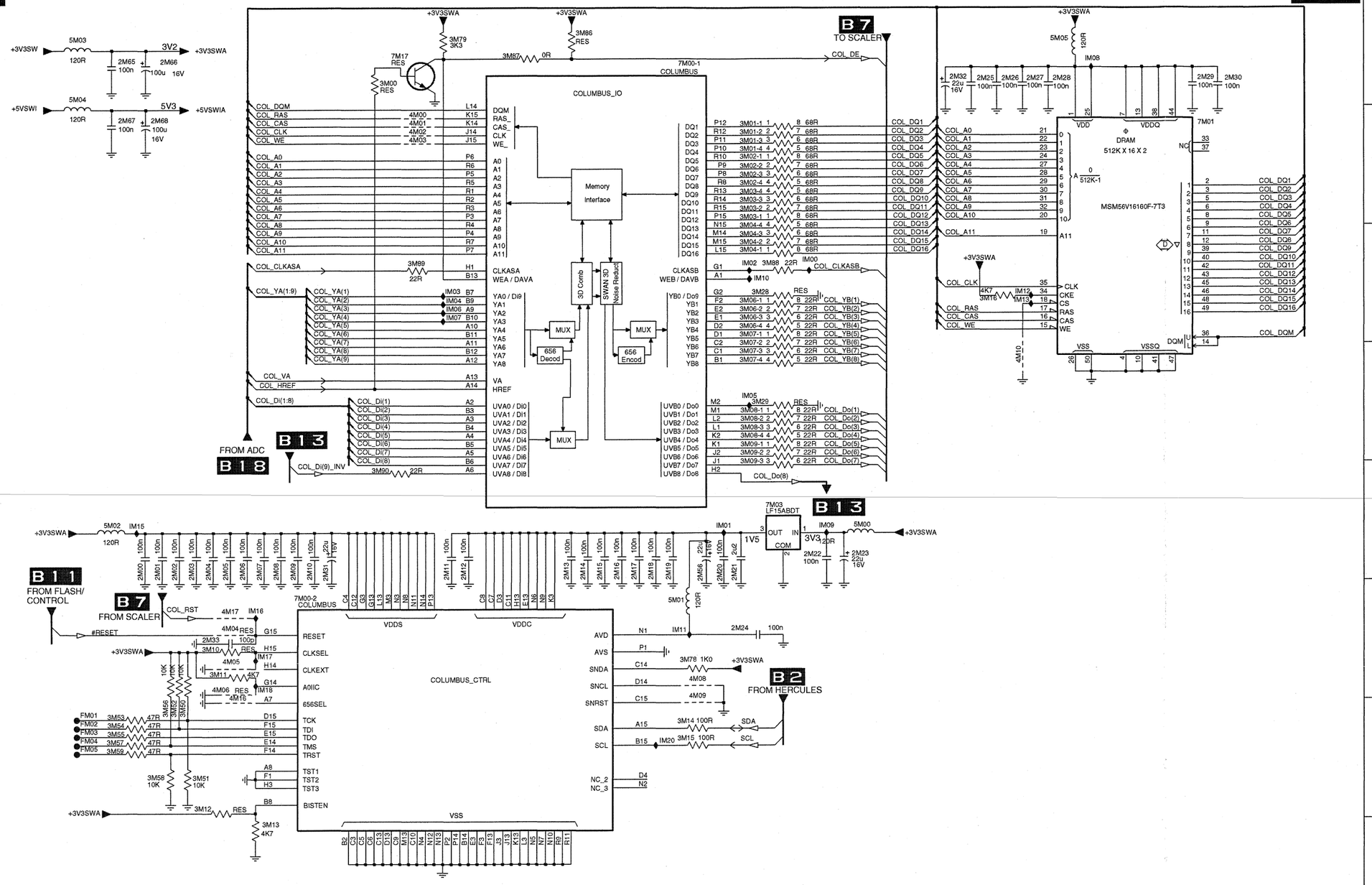
2L95 C7	3L98 C6	
2L96 C7	3L99 E2	
2L97 C7	4L37 E6	
2L98 C7	5L01 A6	
3L00 C10	5L11 A10	
3L01-1 C10	5L17 A9	
3L01-2 C10	5L19 A9	
3L01-3 C10	5L21 A10	
3L01-4 C10	5L51 C2	
3L02-1 C10	5L52 C3	
3L02-2 C10	5L53 C3	
3L02-3 C10	5L54 B5	
3L02-4 C10	5L61 D2	
3L03 E3	5L62 D3	
3L04 D10	5L63 D3	
3L05-1 D10	5L71 D4	
3L05-2 D10	7L01 B8	
3L05-3 D10	7L02 A6	
3L05-4 D10	7L51 C2	
3L06-1 D10	7L52 C4	
3L06-2 D10	7L53 D5	
3L06-3 D10	7L61 D2	
3L06-4 D10	7L62 D4	
3L07 D10	7L71 D1	
3L08 E10	7L72 D3	
3L09 E10	7L73 F5	

SSB: Columbus

B19 COLUMBUS



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2M02 E3
2M03 E3
2M04 E3
2M05 E3
2M06 E3
2M07 E3
2M08 E3
2M09 E4
2M10 E4
2M11 E5
2M12 E5
2M13 E6
2M14 E6
2M15 E6
2M16 E6
2M17 E6
2M18 E7
2M19 E7
2M20 E7
2M21 E7
2M22 E8
2M23 E8
2M24 F7
2M25 A9
2M26 A10
2M27 A10
2M28 A10
2M29 A11
2M30 A11
2M31 E4
2M32 A9
2M33 F3
2M56 E7
2M65 A2
2M66 A2
2M67 B2
2M68 B2
3M00 A4
3M01-1 B7
3M01-2 B7
3M01-3 B7
3M01-4 B7
3M02-1 B7
3M02-2 B7
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3M02-4 B7
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3M10 F3
3M11 F3
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3M58 G2
3M59 G2
3M78 F7
3M79 A5
3M86 A6
3M87 A5
3M88 C8
3M89 C5
3M90 E4
4M00 B5
4M01 B5
4M02 B5
4M03 B5
4M04 F3
4M05 F3
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4M09 F7
4M10 D10
4M16 F3
4M17 F3
5M00 E8
5M01 F7
5M02 E2
5M03 A2
5M04 A2
5M05 A10
7M00-1 A7
7M00-2 F4
7M01 B11
7M03 E8
7M17 A4
FM01 G2
FM02 G2
FM03 G2
FM04 G2
FM05 G2
IM00 C8
IM01 E7
IM02 C7
IM03 C5
IM04 C5
IM05 D7
IM06 C5
IM07 C5
IM08 A10
IM09 E8
IM10 C7
IM11 F7
IM12 C10
IM13 C10
IM15 E2
IM16 F3
IM17 F3
IM18 F3
IM20 G7

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SSB: Pacific 3

B20 PACIFIC 3

B20

LVDS CONNECTOR MATRIX

LCD 26" & 32"

LCD 37" & 42" PDP 42" & 50" (1G50)

TO LCD PANEL (TIMING CONTROL)

TO PLASMA PANEL (TIMING CONTROL)

FROM SCALER INTERFACE

LVDS

SUPPLY

DEBUGGER CONNECTION

FOR DEBUGGING

FOR PACIFIC3 PROGRAMMING

RESET

FOR OTC ONLY

1N02 A11	4N01 A3
1N03 H12	4N02 A3
1N04 G12	4N03 A3
1N05 J13	4N04 A3
1N11 D6	4N05 B3
1N12 E6	4N06 B3
1N13 F6	4N07 B3
1N14 F6	4N08 B3
1N15 G6	4N09 B3
1N16 A10	4N10 B3
1N17 D10	4N11 B12
1N18 D11	4N12 C12
1N19 G9	4N13 C12
1N20 J14	4N20 D8
2N01 J1	4N21 E8
2N02 J1	4N22 F8
2N03 J1	4N23 F8
2N04 J1	4N24 F8
2N05 J1	4N25 F8
2N06 J1	4N26 F8
2N07 J1	4N27 F8
2N08 J2	4N28 F9
2N09 J2	4N29 F9
2N10 J2	4N30 J12
2N11 J2	4N31 J12
2N12 J2	4N34 H10
2N13 J2	4N35 H10
2N14 J2	4N36 F9
2N15 J3	4N37 F10
2N16 J3	4N38 F8
2N17 I2	5N03 H5
2N19 I2	5N04 H2
2N20 I3	5N05 H6
2N21 I3	5N06 H6
2N22 I3	5N07 I10
2N23 I3	5N10 B2
2N24 I3	5N11 B4
2N25 I4	5N12 B3
2N26 I5	5N72 E13
2N27 I5	6N19 C11
2N28 H6	7N00-1 C3
2N29 H7	7N00-2 A13
2N30 H7	7N00-3 J8
2N31 I6	7N02 F13
2N32 I7	7N03 H4
2N33 I7	7N04 H2
2N35 I7	7N05 G9
2N36 I7	FN01 B2
2N37 I8	FN02 C3
2N38 I8	FN03 B3
2N39 I8	FN09 I4
2N40 I8	FN10 H5
2N41 I8	FN11 H7
2N42 I8	FN12 H7
2N43 I8	FN13 B12
2N44 I9	FN15 B12
2N45 I9	FN16 B12
2N46 I9	FN17 B12
2N47 I9	FN18 B12
2N48 I9	FN19 B12
2N49 I9	FN20 C12
2N50 I9	FN24 C12
2N54 C2	FN25 C12
2N55 C2	FN32 D10
2N56 C3	FN33 D10
2N57 C3	FN34 F10
2N58 C3	FN35 F12
2N59 C3	FN36 F12
2N60 C3	FN38 G12
2N61 C3	FN39 G12
2N62 C4	FN40 G12
2N63 C4	FN41 H12
2N64 C4	FN42 H12
2N65 C4	FN43 H12
2N66 C4	FN44 H12
2N67 C4	FN46 G10
2N68 I13	FN47 H10
2N69 B14	FN48 H10
2N75 E13	FN49 H10
2N76 E13	FN50 H10
2N80 E7	FN51 H10
2N81 E7	FN52 H10
2N82 E7	FN53 H10
2N83 E7	FN54 H10
2N84 F7	FN55 H10
2N85 F7	FN56 A12
2N86 F7	FN57 A12
2N87 F7	FN58 E13
2N88 G7	FN59 I9
2N89 G7	IN01 H2
2N90 G8	IN02 H5
3N01 E1	IN03 E10
3N02 E1	IN04 E10
3N03 F1	IN05 F9
3N04 F1	IN06 F9
3N05 F1	IN07 F9
3N10 A12	IN08 F9
3N11 A11	IN09 C12
3N12 C12	IN10 C11
3N13 B14	IN11 B13
3N14 B14	IN12 B13
3N15 B14	IN13 B13
3N16 B14	IN14 B13
3N17 B14	IN15 B13
3N19 C11	IN17 G13
3N20 G12	IN18 J12
3N21 G12	IN19 J12
3N22 I12	IN20 B13
3N23 H13	
3N26 I13	
3N27 G10	
3N28 G10	
3N29 B13	
3N30 F8	
3N31 F8	
3N71 E12	
3N72 E12	
3N73 E12	
3N80 E8	
3N81 E8	

3139 123 6117.2

G_16210_021.eps 160106

SSB: Diversity Tables B9-B20

B09

Item Nr.		PDP 42" - 50"	LCD 26" - 32"	LCD 37" - 42"	PDP DVB 42" - 50"	PDP DVB SDI	PDP SDI	Decription
2A00	319801731040	☑	☐	☐	☑	☐	☑	CER2 0603 X7R 16V 100N COL
2A01	319803401010	☑	☐	☐	☑	☑	☑	CER1 0402 NP0 50V 100P COL
2A02	319803401010	☑	☐	☐	☑	☑	☑	CER1 0402 NP0 50V 100P COL
2A12	319803521030	☑	☐	☑	☑	☑	☑	CER2 0402 X7R 16V 10N COL
2A13	319803571040	☑	☐	☑	☑	☑	☑	CER2 0402 Y5V 16V 100N COL
2A14	319803521030	☐	☐	☑	☑	☑	☐	CER2 0402 X7R 16V 10N COL
3A00	319803106890	☑	☐	☐	☑	☐	☐	RST SM 0402 68R PM5 COL
3A01	319803106890	☑	☐	☐	☑	☐	☐	RST SM 0402 68R PM5 COL
3A02	319803101020	☐	☑	☑	☐	☐	☐	RST SM 0402 1K PM5 COL
3A07	319803101030	☑	☐	☐	☑	☑	☑	RST SM 0402 10K PM5 COL
3A08	319803101030	☑	☐	☑	☑	☑	☑	RST SM 0402 10K PM5 COL
3A10	319803101030	☑	☐	☑	☑	☑	☑	RST SM 0402 10K PM5 COL
3A11	319803101030	☑	☐	☑	☑	☑	☑	RST SM 0402 10K PM5 COL
3A13	319803101030	☑	☐	☑	☑	☑	☑	RST SM 0402 10K PM5 COL
3A14	319803104720	☑	☐	☑	☑	☑	☑	RST SM 0402 4K7 PM5 COL
3A15	319803103320	☐	☐	☐	☑	☑	☐	RST SM 0402 3K3 PM5 COL
3A16	319803101030	☐	☐	☐	☑	☑	☐	RST SM 0402 10K PM5 COL
4A03	319802190030	☐	☑	☑	☐	☐	☐	RST SM 0603 JUMP. 0R05 COL
4A04	319803190010	☑	☐	☐	☑	☐	☑	RST SM 0402 JUMP. 0R05 COL
4A05	319803190010	☐	☑	☐	☐	☐	☐	RST SM 0402 JUMP. 0R05 COL
4A06	319803190010	☐	☑	☐	☐	☐	☐	RST SM 0402 JUMP. 0R05 COL
5A00	319801890060	☑	☐	☐	☑	☐	☐	FXDIND 0805 100MHZ 30R COL R
7A00	935275998118	☑	☐	☑	☑	☑	☑	IC SM PCA9515ADP (PHSE) R
7A02	319801042310	☑	☐	☑	☑	☑	☑	TRA SIG SM BC847BW (COL) R
7A03	319801042310	☑	☐	☑	☑	☑	☑	TRA SIG SM BC847BW (COL) R
7A04	319801042310	☐	☐	☐	☑	☑	☐	TRA SIG SM BC847BW (COL) R

B13

Item Nr.		EU 10pg TXT	EU 1000pg TXT	AP with TXT	AP non TXT	Description
2E04	202055200005	☑	☑	☑	☐	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	☑	☑	☑	☐	CER2 0603 X5R 6V3 4U7 PM10 R
2E05	202055200005	☑	☑	☑	☐	CER2 0603 X5R 6V3 4U7 PM10 R
2E06	202055200005	☑	☑	☑	☐	CER2 0603 X5R 6V3 4U7 PM10 R
2E15	319803571040	☐	☐	☑	☑	CER2 0402 Y5V 16V 100N COL
2E21	202055200005	☐	☐	☑	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2E22	202055200005	☐	☐	☑	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2E23	202055200005	☐	☐	☑	☑	CER2 0603 X5R 6V3 4U7 PM10 R
3E00	232270570569	☐	☐	☑	☑	RST SM 0402 RC31 56R PM5 R
3E01	232270570569	☐	☐	☑	☑	RST SM 0402 RC31 56R PM5 R
3E02	232270570569	☐	☐	☑	☑	RST SM 0402 RC31 56R PM5 R
3E13	319803103310	☑	☐	☑	☐	RST SM 0402 330R PM5 COL
	319803190010	☐	☑	☐	☐	RST SM 0402 JUMP. 0R05 COL
3E14	319803103310	☑	☐	☑	☐	RST SM 0402 330R PM5 COL
	319803190010	☐	☑	☐	☐	RST SM 0402 JUMP. 0R05 COL
3E15	319803103310	☑	☐	☑	☐	RST SM 0402 330R PM5 COL
	319803190010	☐	☑	☐	☐	RST SM 0402 JUMP. 0R05 COL
3E16	319803103310	☑	☐	☑	☐	RST SM 0402 330R PM5 COL
3E17	319803103310	☑	☐	☑	☐	RST SM 0402 330R PM5 COL
3E18	319803103310	☑	☐	☑	☐	RST SM 0402 330R PM5 COL
3E32	319803101010	☐	☐	☑	☑	RST SM 0402 100R PM5 COL
3E34	319803101010	☐	☐	☑	☑	RST SM 0402 100R PM5 COL
3E46	319803101010	☐	☐	☑	☑	RST SM 0402 100R PM5 COL
	319803101090	☑	☑	☐	☐	RST SM 0402 10R PM5 COL
4E10	319803101090	☑	☑	☐	☐	RST SM 0402 10R PM5 COL
4E11	319803101090	☑	☑	☐	☐	RST SM 0402 10R PM5 COL
5E02	242254945333	☐	☐	☑	☑	IND FXD 1206 EMI 100MHZ 120R R
5E03	242254945333	☐	☐	☑	☑	IND FXD 1206 EMI 100MHZ 120R R
6E01	319802052780	☐	☐	☑	☑	DIO REG SM BZX384-C2V7 COL R
6E03	319802052780	☐	☐	☑	☑	DIO REG SM BZX384-C2V7 COL R
7E02	932219956668	☐	☐	☑	☑	IC SM ADG781BCPZ (ANA0) R
7E03	319801071090	☐	☐	☑	☑	IC SM 74HC4053D (COL) R
7E04	319801070740	☑	☑	☑	☐	IC SM 74LCX14T (COL) R
	935260739118	☐	☐	☐	☑	IC SM 74LVC14APW (PHSE) R
7E05	319801070740	☑	☑	☑	☐	IC SM 74LCX14T (COL) R
	935260739118	☐	☐	☐	☑	IC SM 74LVC14APW (PHSE) R

B15AB

Item Nr.		Non DVB	With DVB	Desciption
1G03	242202518872	☐	☑	CON H 32P F 0.50 SM FPC 0.3 R
2G31	202055200005	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G32	319801741050	☐	☑	CER2 0603 Y5V 10V 1U COL
	319803041090	☐	☑	ELCAP SM 16V 10U PM20 COL R
2G35	319803571040	☐	☑	CER2 0402 Y5V 16V 100N COL
2G36	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G37	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G38	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G39	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G40	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G41	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G45	319801731020	☐	☑	CER2 0603 X7R 50V 1N COL
	319803501020	☐	☑	CER2 0402 X7R 50V 1N COL
2G48	319801741050	☐	☑	CER2 0603 Y5V 10V 1U COL
2G49	319801741050	☐	☑	CER2 0603 Y5V 10V 1U COL
2G50	319803041090	☐	☑	ELCAP SM 16V 10U PM20 COL R
2G51	319803571040	☐	☑	CER2 0402 Y5V 16V 100N COL
2G52	202055296703	☐	☑	CER1 0402 NP0 50V 180P PM5 R
2G53	202055296703	☐	☑	CER1 0402 NP0 50V 180P PM5 R
2G62	202055200035	☐	☑	CER2 0603 X5R 6V3 2U2 PM10 R
	202055200183	☐	☑	CER2 0603 X5R 6V3 2U2 PM10 R
2G63	202055200035	☐	☑	CER2 0603 X5R 6V3 2U2 PM10 R
	202055200183	☐	☑	CER2 0603 X5R 6V3 2U2 PM10 R
2G65	202055200005	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G66	202055200005	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
2G72	202055200005	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	☐	☑	CER2 0603 X5R 6V3 4U7 PM10 R
3G40	319803101010	☐	☑	RST SM 0402 100R PM5 COL
3G41	319803101010	☐	☑	RST SM 0402 100R PM5 COL
3G42	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G43	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G44	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G45	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G46	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G47	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G48	319803106890	☐	☑	RST SM 0402 68R PM5 COL
3G49	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G50	319803106890	☐	☑	RST SM 0402 68R PM5 COL
3G51	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G52	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G53	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G54	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G55	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G56	319803101010	☐	☑	RST SM 0402 100R PM5 COL
3G60	319803104720	☐	☑	RST SM 0402 4K7 PM5 COL
3G61	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G62	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G63	319803101010	☐	☑	RST SM 0402 100R PM5 COL
3G64	319803101010	☐	☑	RST SM 0402 100R PM5 COL
3G65	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G66	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G67	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G68	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G69	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G70	319803104730	☐	☑	RST SM 0402 47K PM5 COL
3G71	319803101010	☐	☑	RST SM 0402 100R PM5 COL
3G80	319803106890	☐	☑	RST SM 0402 68R PM5 COL
3G81	319803101020	☐	☑	RST SM 0402 1K PM5 COL
3G83	319803101030	☐	☑	RST SM 0402 10K PM5 COL
3G84	319803101030	☐	☑	RST SM 0402 10K PM5 COL
3G85	319803104730			RST SM 0402 47K PM5 COL
3G86	319803104730			RST SM 0402 47K PM5 COL
3G87	319803104730			RST SM 0402 47K PM5 COL
3G88	319803101020			RST SM 0402 1K PM5 COL
3G89	319803104730			RST SM 0402 47K PM5 COL
3G90	319803101020			RST SM 0402 1K PM5 COL
3G91	319803101020			RST SM 0402 1K PM5 COL
3G92	319803102230			RST SM 0402 22K PM5 COL

B16

Item Nr.		LCD 37" - 42	LCD 26" - 32	PDP 42" - 50	Description
1J00	242202510771	☑	☐	☑	CON V 10P M 2.00 PH B
1J01	242202510655	☑	☐	☑	CON V 11P M 2.00 PH B
1J02	242202510772	☐	☑	☐	CON V 12P M 2.00 PH B
1J03	242202510768	☐	☑	☐	CON V 3P M 2.00 PH B
1J07	242208611081	☑	☐	☑	FUSE SM T 3A 125V UL R
1J08	242254945333	☑	☐	☑	IND FXD 1206 EMI 100MHZ 120R R
2J18	319803401010	☑	☑	☐	CER1 0402 NP0 50V 100P COL
2J19	319803401010	☑	☑	☐	CER1 0402 NP0 50V 100P COL
2J22	319803401010	☑	☑	☐	CER1 0402 NP0 50V 100P COL
2J23	319803401010	☑	☑	☐	CER1 0402 NP0 50V 100P COL
2J31	319803401010	☑	☐	☑	CER1 0402 NP0 50V 100P COL
3J03	319803106890	☑	☑	☐	RST SM 0402 68R PM5 COL
3J04	319803106890	☑	☑	☐	RST SM 0402 68R PM5 COL
4J01	319803190010	☑	☐	☑	RST SM 0402 JUMP. 0R05 COL
5J04	242254945333	☑	☐	☑	IND FXD 1206 EMI 100MHZ 120R R

B17

Item Nr.		26in - 32i	37in - 50i	Description
1K01	242202510772	☑	☐	CON V 12P M 2.00 PH B
1K04	242202510655	☐	☑	CON V 11P M 2.00 PH B
2K15	319803401010	☑	☐	CER1 0402 NP0 50V 100P COL
3K08	319803106890	☑	☐	RST SM 0402 68R PM5 COL
4K02	319802190030	☐	☑	RST SM 0603 JUMP. 0R05 COL

B20 LVDS Conn.

Item Nr.		PDP LG	LCD 37" - 42	LCD 26" - 32	PDP FHP	PDP SDI	Description
1N16	242202518772	☐	☐	☑	☐	☐	CON V 30P M 1.25 SM 1453230 R
1N17	242202518427	☑	☑	☐	☑	☑	CON H 31P F 1.25 SM FI-WE R
2N90	319803571030	☐	☐	☐	☐	☑	CER2 0402 Y5V 16V 10N COL
3N30	319803101030	☐	☐	☐	☐	☑	RST SM 0402 10K PM5 COL
3N31	319803104720	☐	☐	☐	☐	☑	RST SM 0402 4K7 PM5 COL
3N80	319803101010	☑	☑	☐	☐	☐	RST SM 0402 100R PM5 COL
3N81	319803101010	☑	☑	☐	☐	☐	RST SM 0402 100R PM5 COL
4N24	319803190010	☐	☐	☐	☑	☐	RST SM 0402 JUMP. 0R05 COL
4N26	319803190010	☑	☑	☐	☐	☐	RST SM 0402 JUMP. 0R05 COL
4N36	319803190010	☐	☐	☐	☑	☐	RST SM 0402 JUMP. 0R05 COL
4N37	319803190010	☐	☐	☐	☑	☐	RST SM 0402 JUMP. 0R05 COL
7N05	319801042310	☐	☐	☐	☐	☑	TRA SIG SM BC847BW (COL) R

B20 Pac-3

Item Nr.		With Pixel Plus (Pac	Non Pixel Plus	Description
1N02	242254000017	☑	☐	R
1N03	242202518779	☑	☐	CON V 4P M 2.00 SM PH R
1N04	242202518196	☐	☐	CON V 4P M 2.00 SM PH R
	242202518779	☑	☐	CON V 4P M 2.00 SM PH R
1N05	242212802975	☑	☐	SWI TACT SM H=0.5 160G SKQR R
1N19	242202518734	☑	☐	CON V 10P M 2.00 SM PH R
2N01	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N02	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N03	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N04	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N05	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N06	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N07	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N08	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N09	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N10	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N11	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N12	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N13	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N14	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N15	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N16	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N17	319803024790	☑	☐	ELCAP SM 6V3 47U PM20 COL R
2N19	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N20	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N21	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N22	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N23	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N24	319803024790	☑	☐	ELCAP SM 6V3 47U PM20 COL R
2N25	319803024790	☑	☐	ELCAP SM 6V3 47U PM20 COL R
2N26	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N27	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N28	202055200005	☑	☐	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	☑	☐	CER2 0603 X5R 6V3 4U7 PM10 R
2N29	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N30	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N31	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N32	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N33	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N35	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N36	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N37	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N38	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N39	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N40	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N41	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N42	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N43	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N44	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N45	319803571040	☑	☐	CER2 0402 Y5V 16V 100N COL
2N46	319803571040			CER2 0402 Y5V 16V 100N COL
2N47	319803571040			CER2 0402 Y5V 16V 100N COL
2N48	319803571040			CER2 0402 Y5V 16V 100N COL
2N49	319803571040			CER2 0402 Y5V 16V 100N COL
2N50	319803571040			CER2 0402 Y5V 16V 100N COL
2N51	319803024790			ELCAP SM 6V3 47U PM20 COL R
2N54	319803074780			ELCAP SM 35V 4U7 PM20 COL R

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190106

Layout Small Signal Board (Top Side Overview)

1152 E9 1G03 E6 1N03 B1 2213 C7 2234 B8 2250 B7 2269 B9 2291 D8 2710 A5 2763 B4 2B01 D1 2E20 E3 2G22 F3 2G43 F5 2J06 A1 2J21 A7 2K04 B10 2L15 C6 2L93 C6 3215 C7 3244 C7 3278 C7 3737 B4 3813 C2 3B01 C1 3E34 E3 3F03 F1 3G29 F5 3G45 E5 3G61 E8 3G82 E6 4G15 E8 6G13 F4
1153 C9 1J00 A7 1N04 A1 2214 C8 2235 B8 2251 B7 2270 B8 2447 B7 2711 A5 2815 D4 2B02 D1 2E31 E3 2G23 F4 2G45 E6 2J07 A1 2J22 A7 2K05 C10 2L16 C7 2L96 C6 3216 C7 3245 C9 3279 C7 3753 B4 3814 C2 3B02 C1 3E35 E4 3F04 F1 3G30 F5 3G46 E5 3G62 E8 3G83 E6 4G16 E7 6G14 F4
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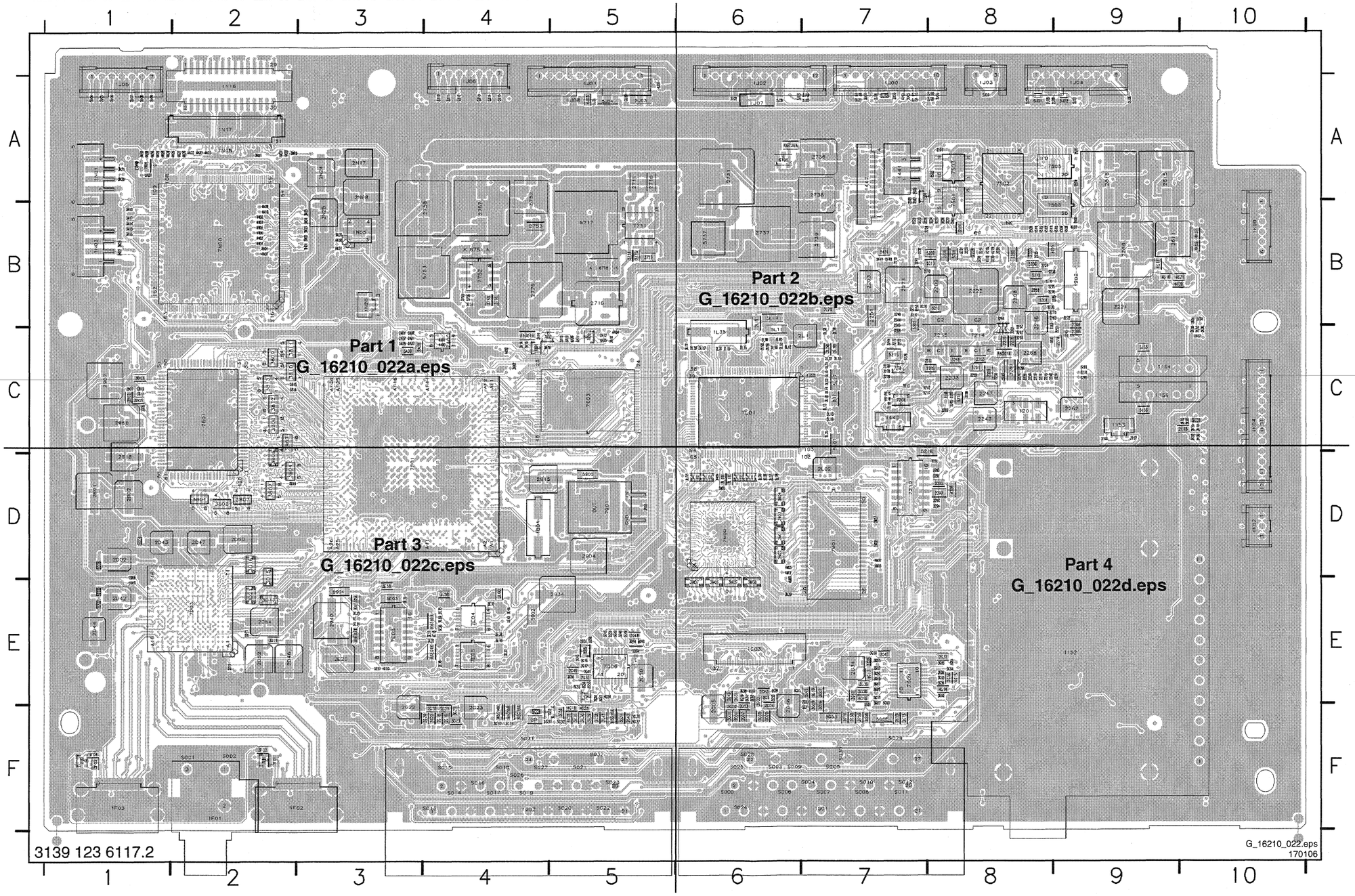

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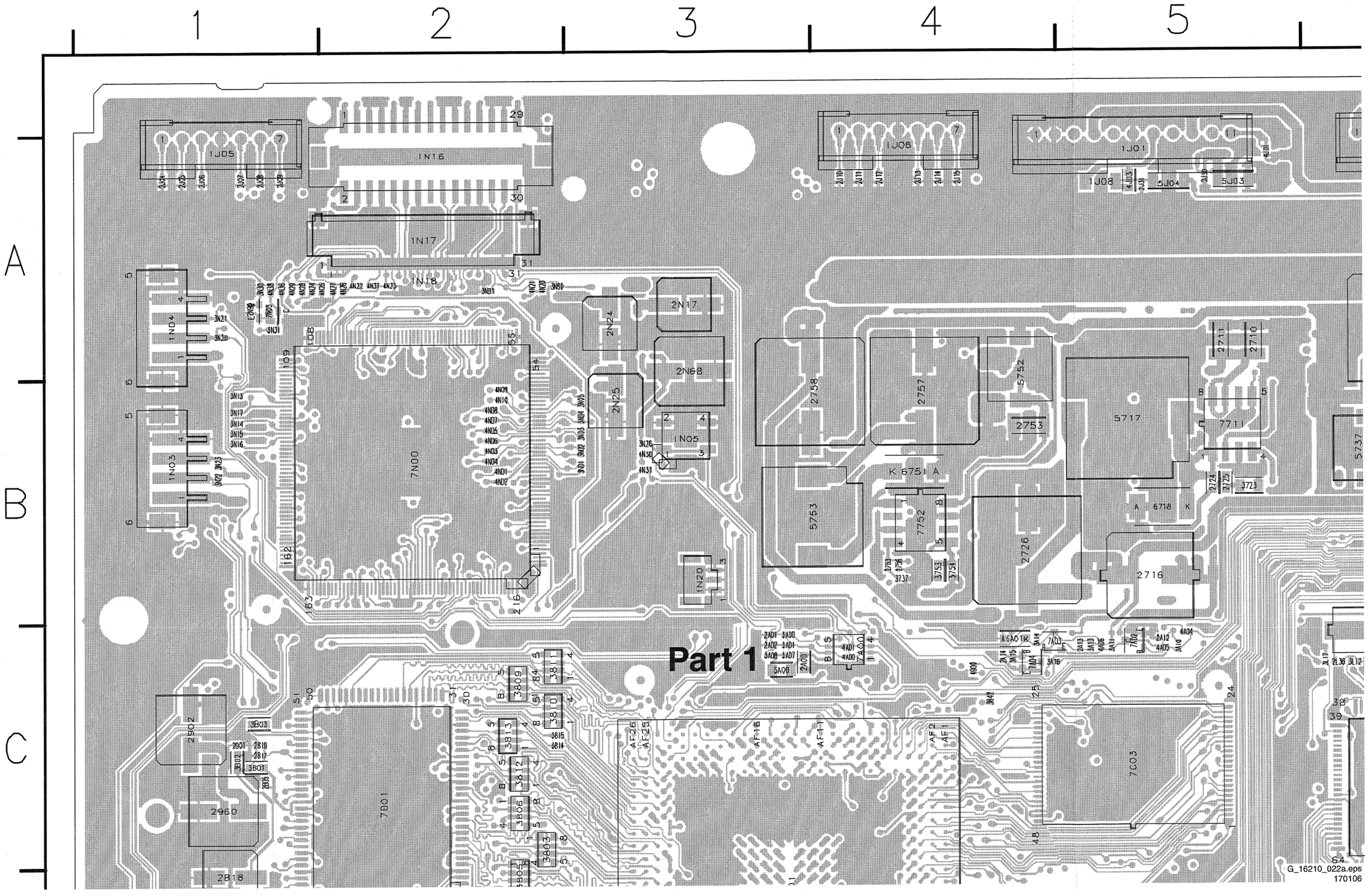

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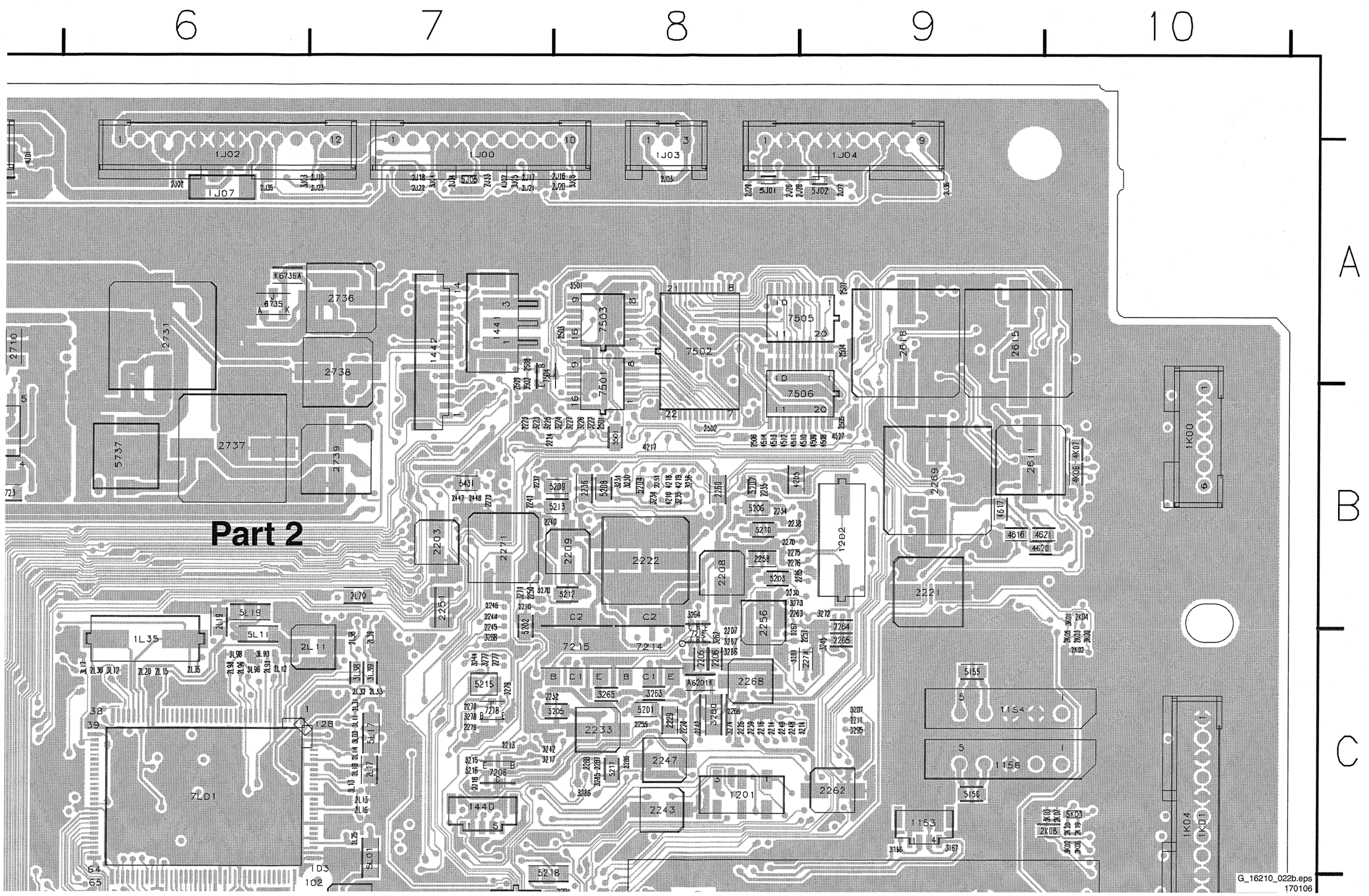

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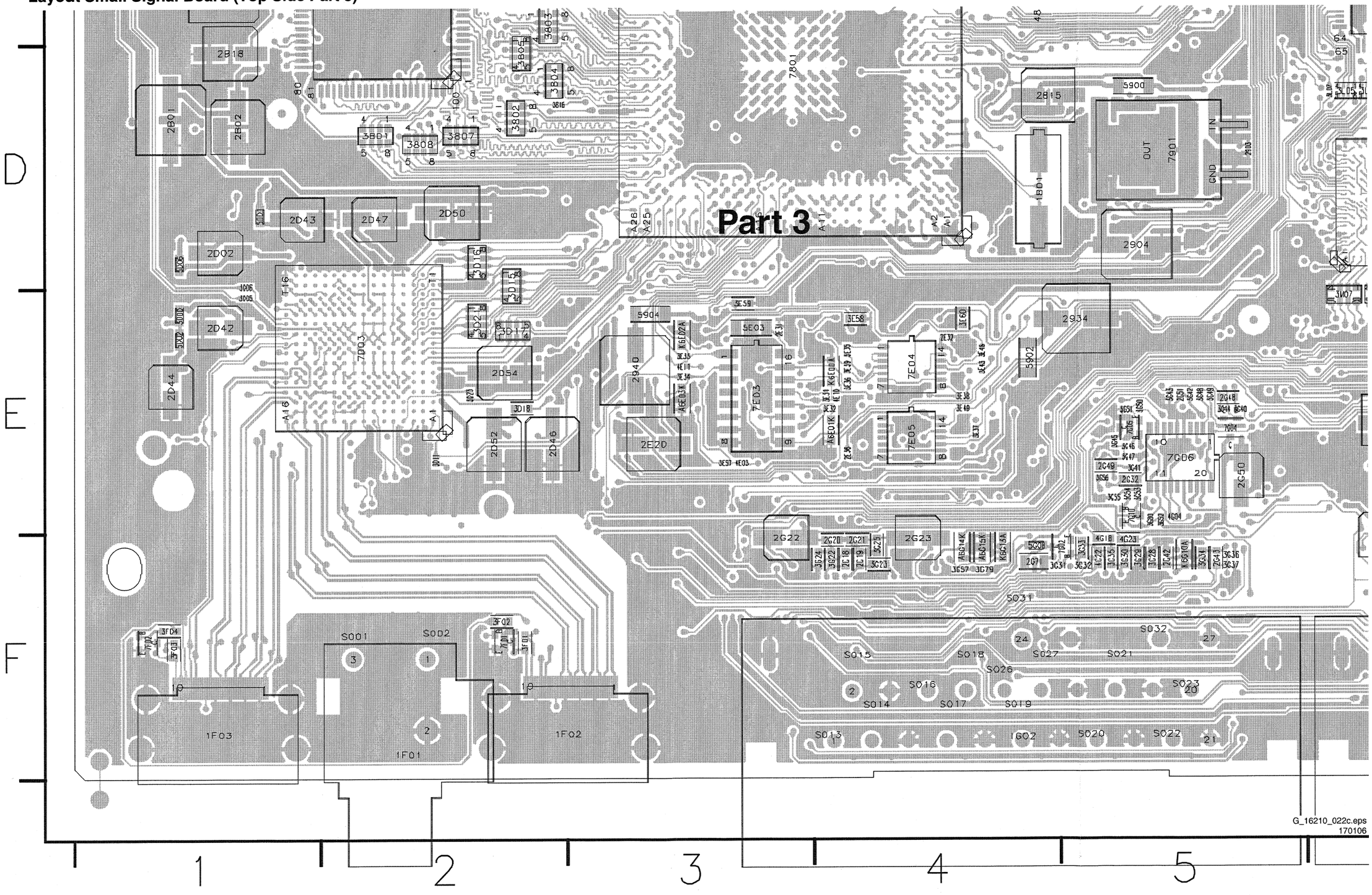

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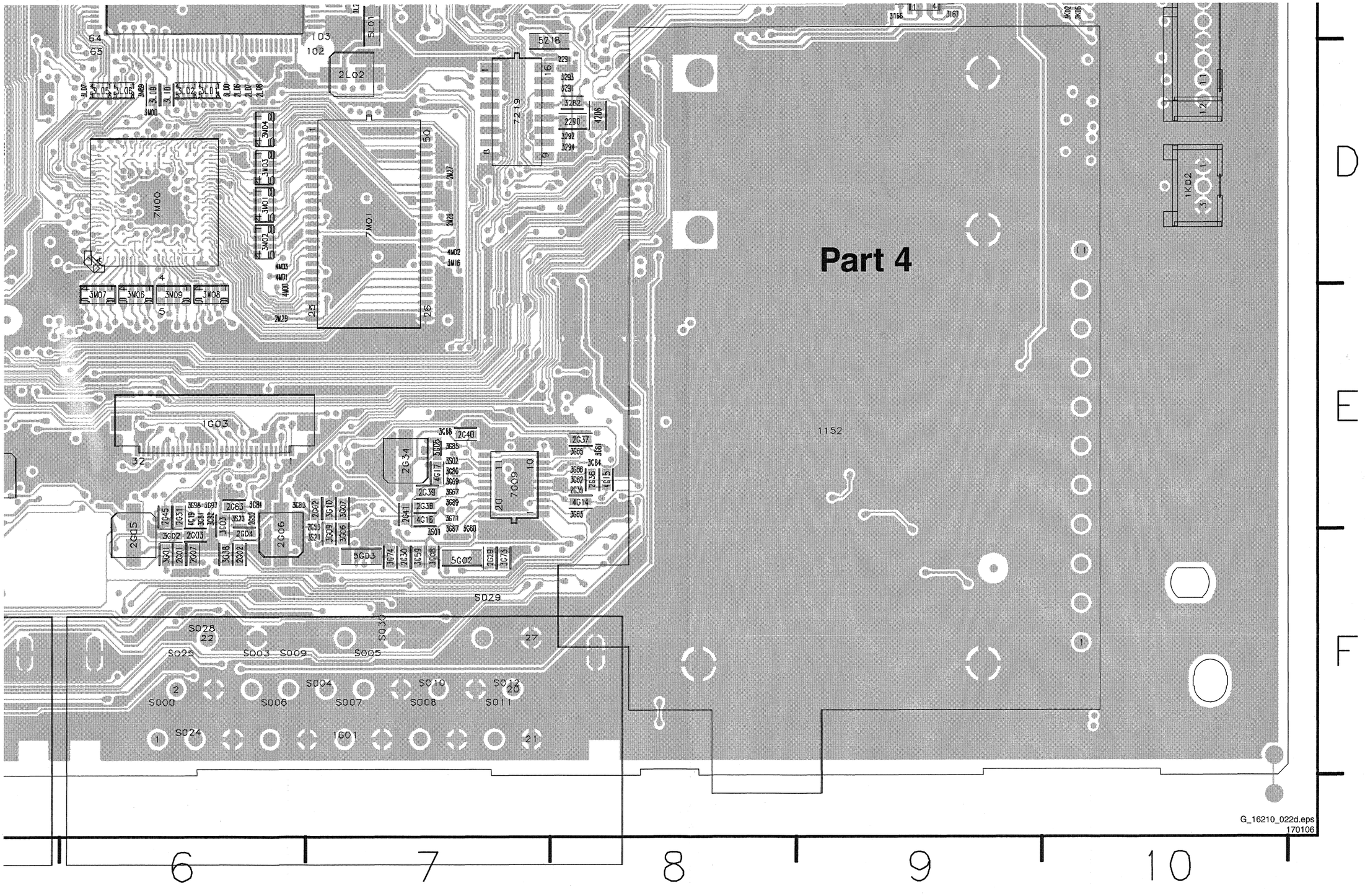

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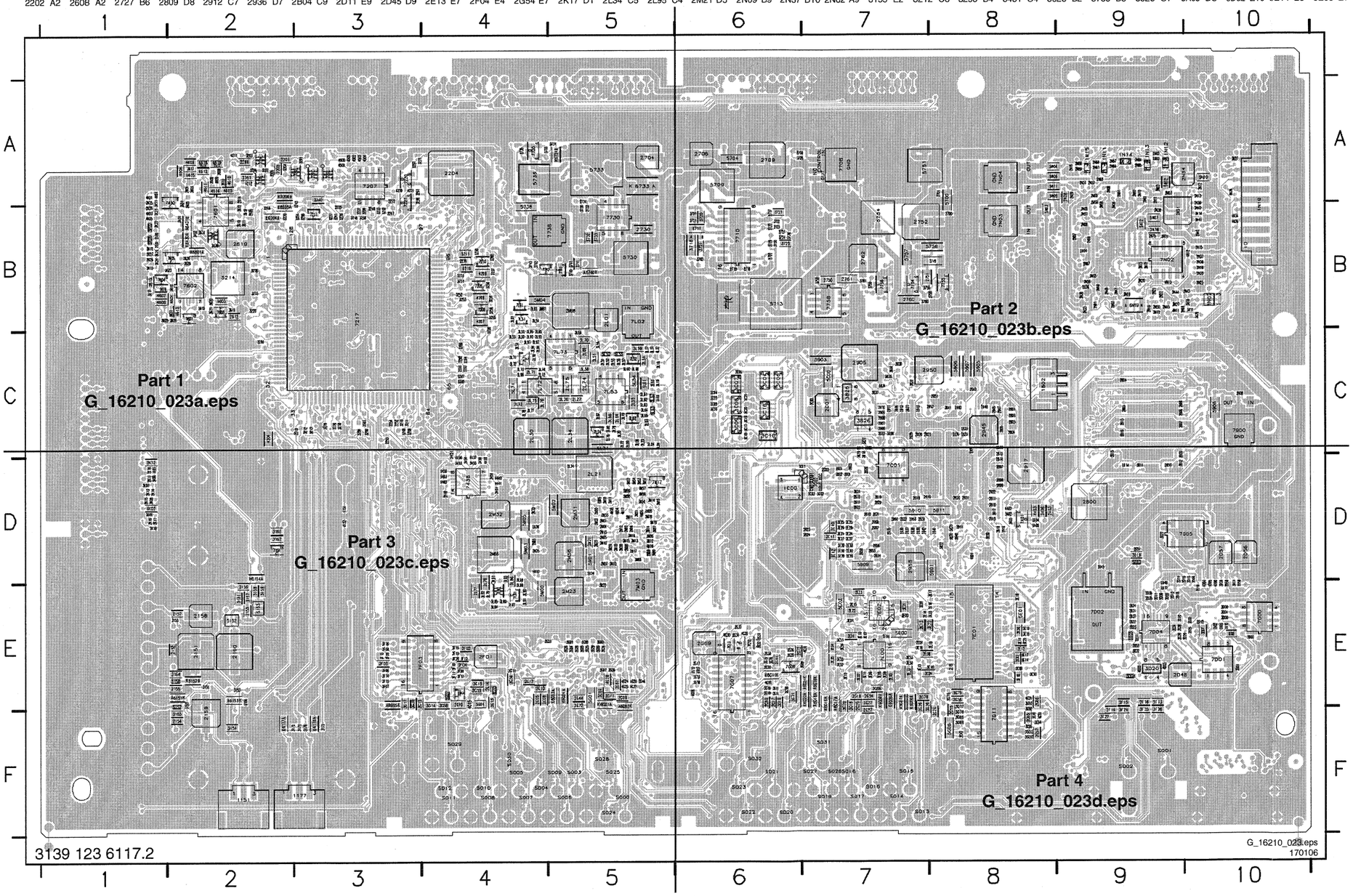

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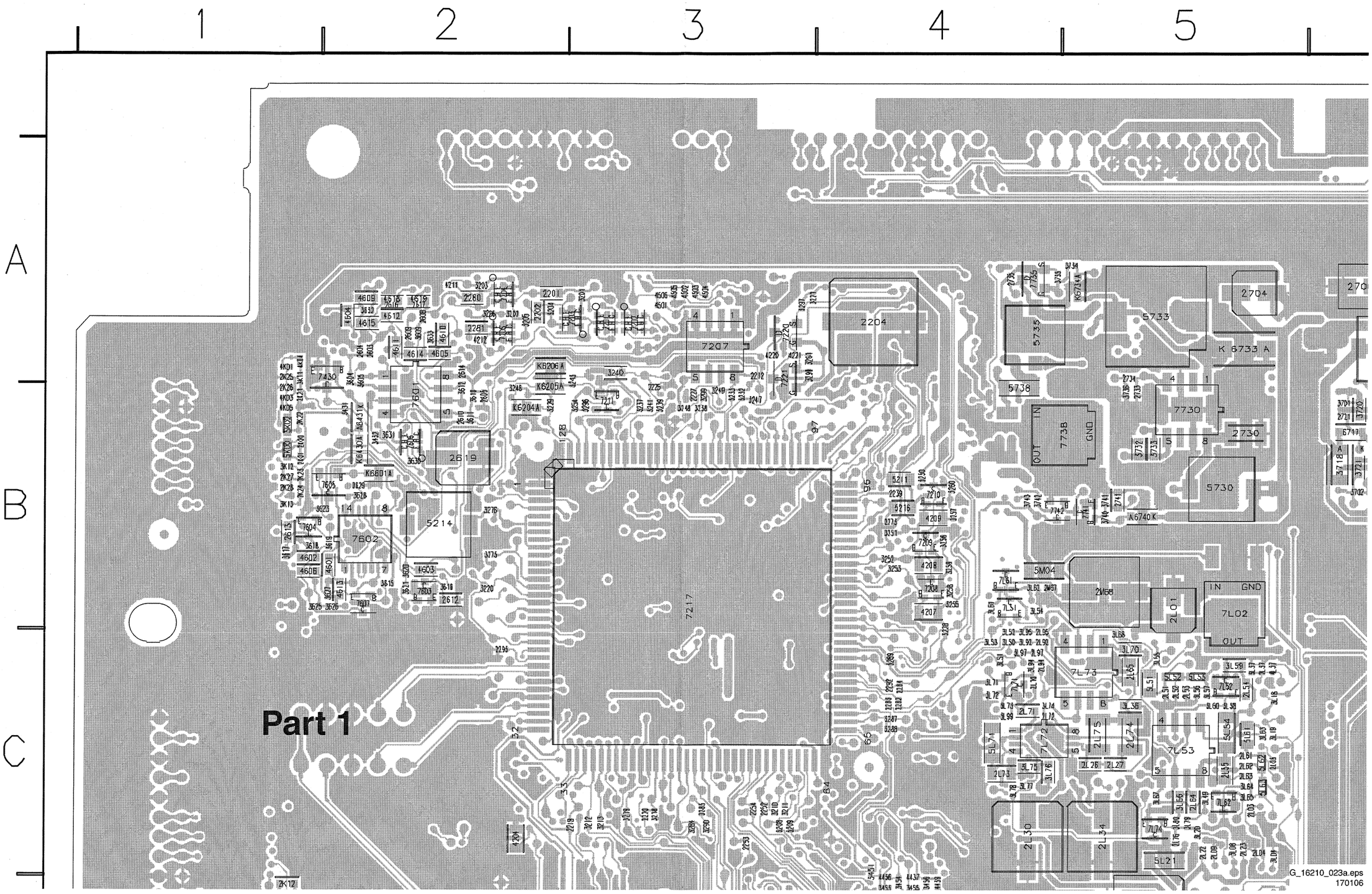
3G27 E7 3N11 B10 4M05 D5 6G18 E7
3G39 E4 3N12 B9 4M06 D5 6G19 E7
3G58 E4 3N19 B9 4M08 D5 6G20 E7
3G70 E6 3N27 A10 4M09 D5 6G21 E7
3G72 E5 3N28 A10 4M10 D4 6N19 B9
3G75 E8 3N29 B10 4M16 D5 7151 D2
3G76 E8 3N71 B9 4M17 D5 7201 A3
3G77 E8 3N72 B9 4N11 B9 7202 A3
3G78 F8 3N73 B9 4N12 B10 7203 A3
3G88 E5 3S00 F8 4N13 B9 7204 A2
3G90 E5 3S03 F8 4N34 B10 7205 A2
3G91 E5 3S04 E5 4N35 B10 7207 A3
3G92 F8 3S05 E5 5151 E2 7208 B4
3G93 E8 3S06 E5 5152 E2 7209 B4
3G94 F8 3S07 E5 5153 E2 7210 B4
3G95 F8 3S08 E5 5157 E2 7211 B3
3G96 F8 3S09 E7 5158 E2 7217 B3
3G99 F8 3S10 F8 5211 B4 7220 A3
3K05 D1 3S11 E6 5214 B2 7221 A3
3K06 D1 3S12 E6 5216 B4 7430 A2
3K07 D1 3S13 E6 5700 A8 7436 D4
3K08 D1 3S14 E6 5704 A6 7601 B2
3K09 D1 3S15 E6 5709 A6 7602 B2
3K11 A1 3S16 E6 5713 B6 7603 B2
3K12 B1 3S17 E6 5730 B5 7604 B1
3K13 B1 3S18 E6 5733 A5 7605 B2
3L04 C5 3S19 E6 5735 A4 7606 B2
3L08 C5 3S20 E6 5738 B4 7607 B2
3L18 C5 3S23 E4 5751 A7 7708 A7
3L19 C5 3S24 E5 5754 B7 7710 B6
3L20 C5 3S25 E5 5756 B8 7730 B5
3L36 C5 3S26 E5 5757 B7 7735 A4
3L37 C5 3S28 E5 5901 D8 7738 B5
3L49 C5 3S29 E5 5903 C7 7741 B5
3L50 C4 3S30 E6 5905 C8 7742 B4
3L51 C4 3S31 E6 5906 C8 7754 B7
3L52 C4 3S32 E6 5907 C8 7755 B8
3L53 C4 3S33 E6 5908 C10 7756 B7
3L54 B4 3S34 E6 5909 D7 7758 B7
3L55 C5 3S35 E6 5910 D7 7900 C10
3L56 C5 3S36 E6 5911 D8 7A01 D8
3L57 C5 4151 D3 5C00 C7 7C01 D7
3L58 C5 4152 D3 5D03 D9 7C02 D7
3L59 C5 4204 C2 5D04 E9 7D00 E10
3L60 C5 4207 B4 5D05 E9 7D01 E10
3L61 B4 4208 B4 5E00 E7 7D02 E9
3L62 B4 4209 B4 5E01 E8 7D04 E9
3L63 C5 4211 A2 5E02 E7 7D05 D10
3L64 C5 4212 A2 5G01 E5 7E00 E7
3L65 C5 4220 A3 5G04 E4 7E01 E8
3L66 C5 4221 A3 5G06 F8 7E02 E7
3L67 C5 4436 D4 5G07 E4 7F03 E3
3L68 C5 4437 D4 5K00 B1 7G01 E4
3L69 D4 4439 D4 5K02 B1 7G07 E6
3L70 C5 4440 D4 5L21 C5 7G08 E6
3L71 C4 4441 D4 5L51 C5 7G11 F8
3L72 C4 4501 A3 5L52 C5 7G12 E6
3L73 C4 4502 A3 5L53 C5 7G13 E6
3L74 C4 4503 A3 5L54 C5 7L02 B5
3L75 C4 4504 A3 5L61 C5 7L51 B4
3L76 C4 4505 A3 5L62 C5 7L52 C5
3L77 C4 4506 A3 5L63 C5 7L53 C5
3L78 C4 4601 B2 5L71 C4 7L61 B4
3L79 C5 4602 B1 5M00 E4 7L62 C5
3L80 C5 4603 B2 5M01 D5 7L71 C4
3L81 D4 4604 A2 5M02 D5 7L72 C4
3L82 E4 4605 A2 5M03 D4 7L73 C5
3L83 D4 4606 B1 5M04 B4 7L74 C5
3L84 E4 4609 A2 5M05 D4 7L80 E4
3L85 E4 4610 A2 5N03 B8 7L81 E4

Layout Small Signal Board (Bottom Side Part 1)



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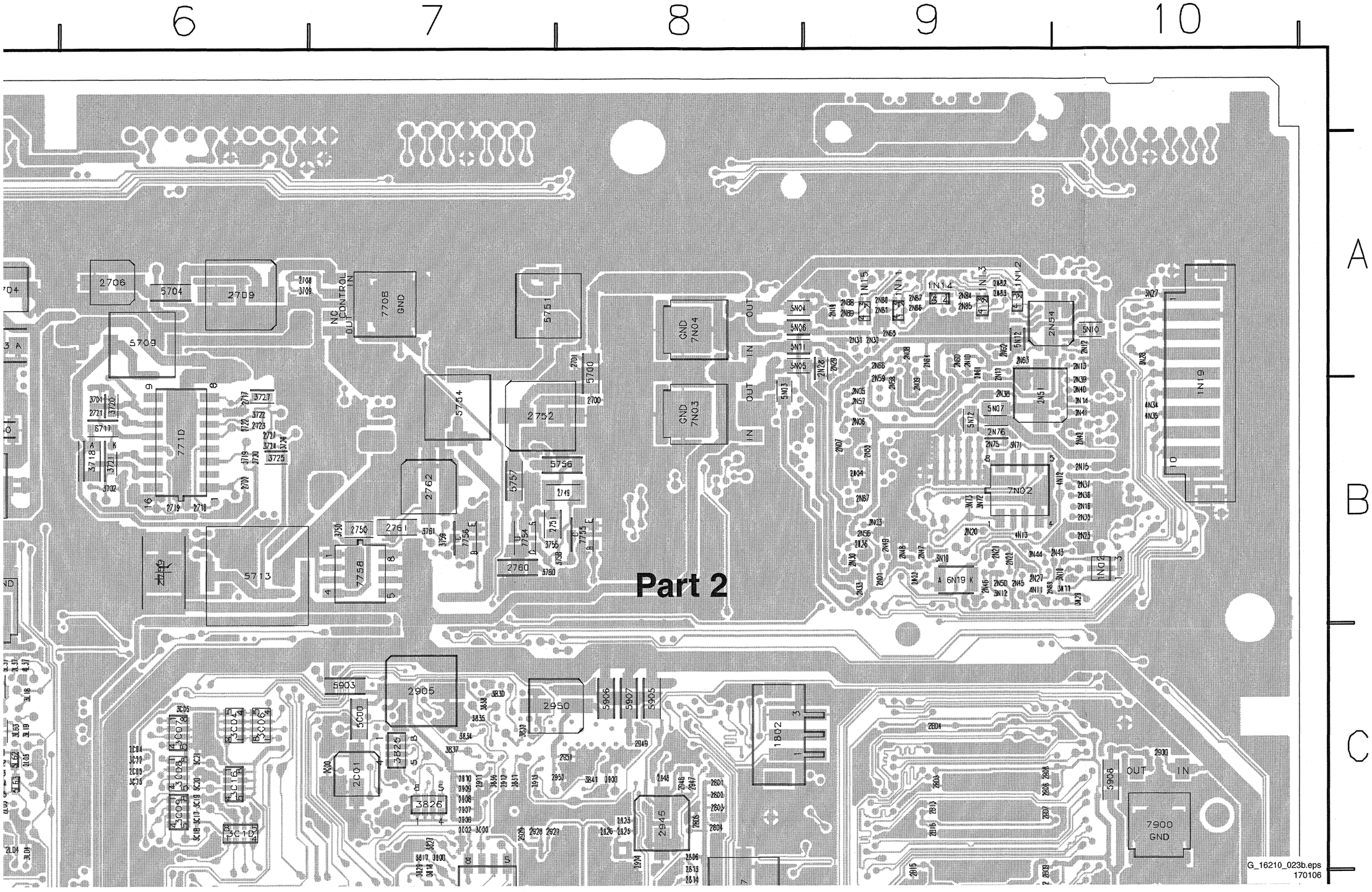
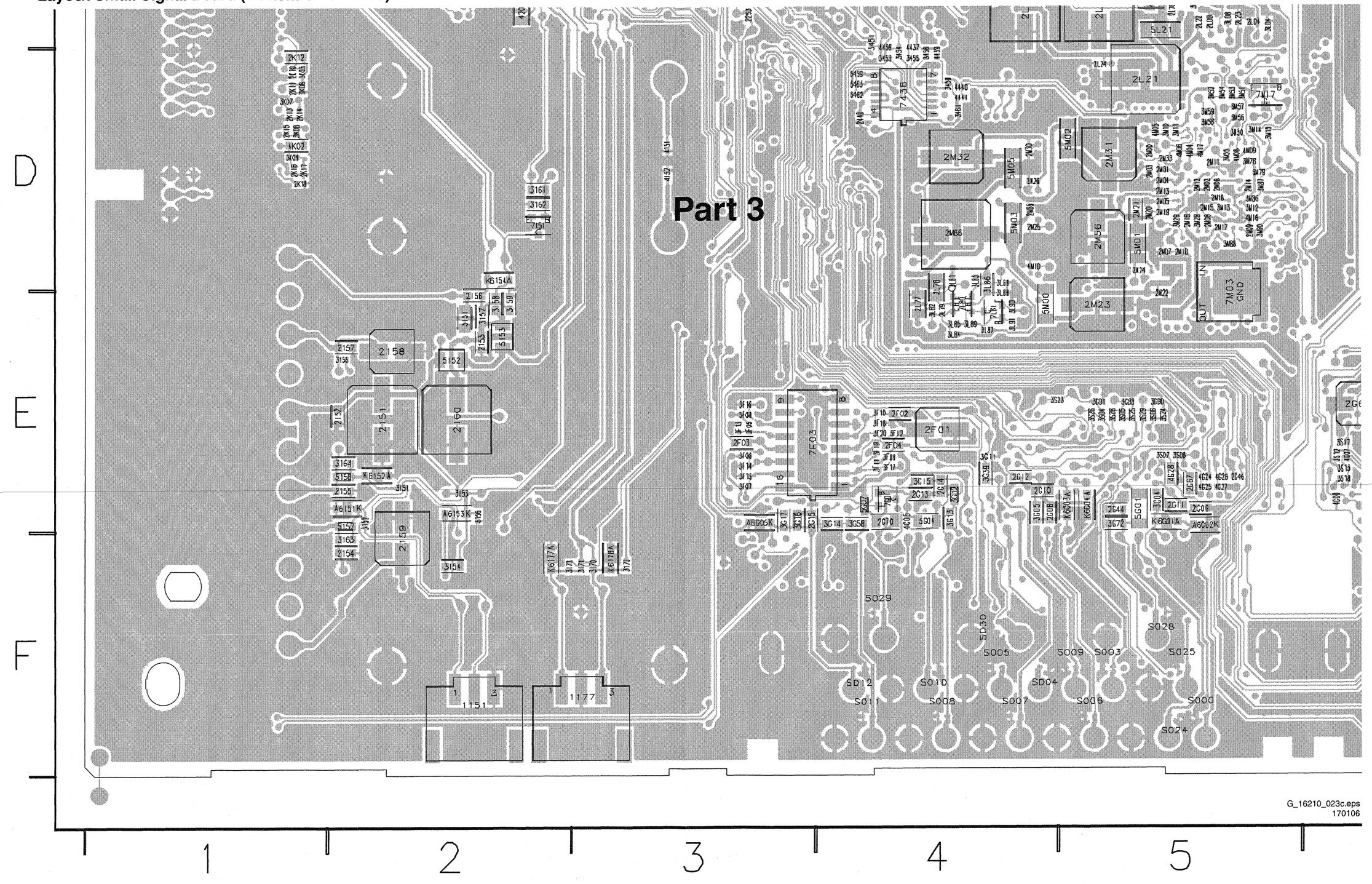
Layout Small Signal Board (Bottom Side Part 2)



Layout Small Signal Board (Bottom Side Part 3)



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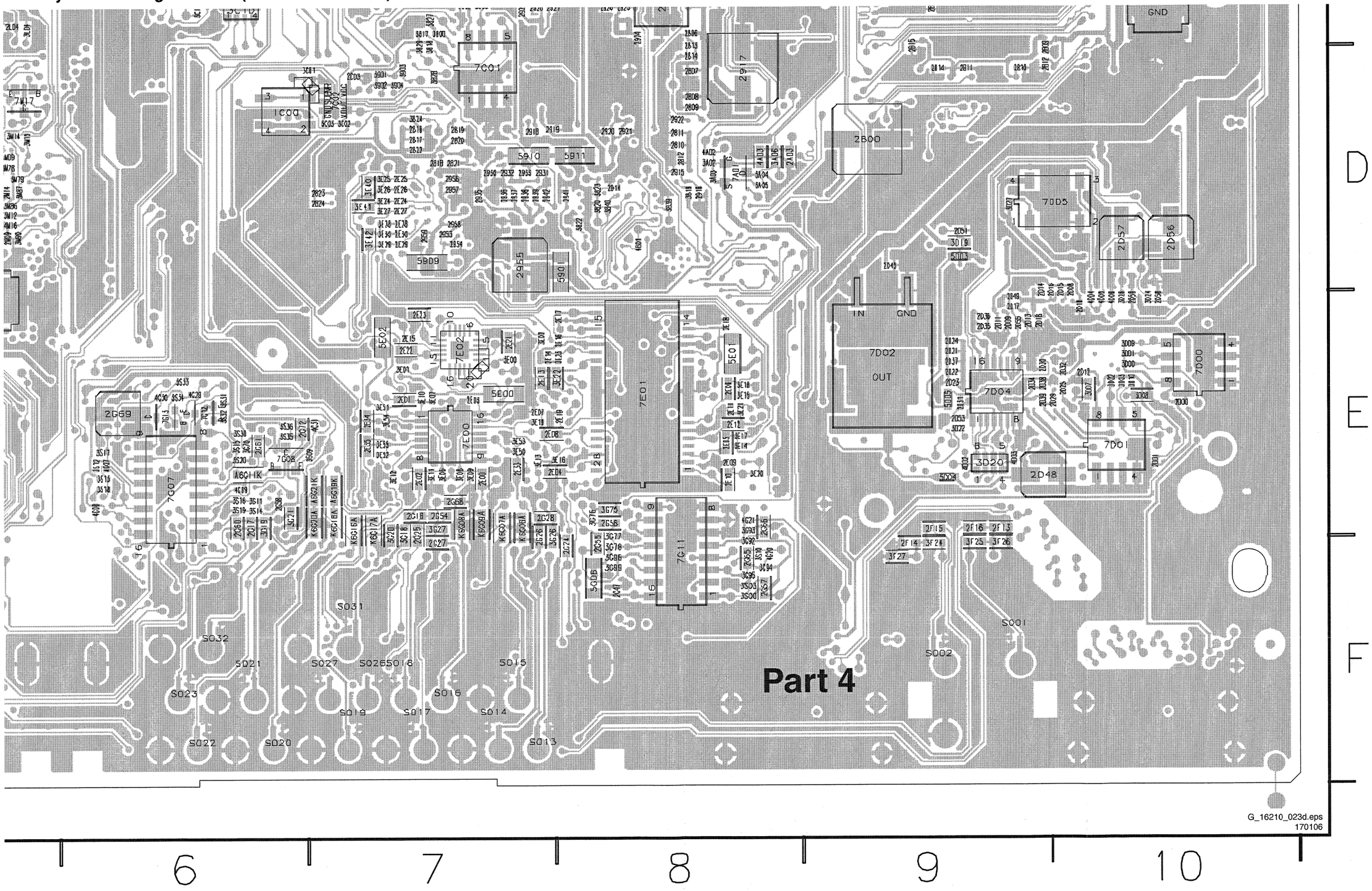
Layout Small Signal Board (Bottom Side Part 4)



Class D Audio Amplifier (26” & 32”)

C CLASS D AUDIO AMPLIFIER (26” & 32” ONLY)

POWER LINE FILTER

FROM 1J03 OF SSB BOARD B16

1003 B3B-PH-K

F001 5001 F007 3001 10R F008 VP_SGN VP

2001 220u 35V 2002 100n 2003 100n 2048 100n 2004 220u 35V

F002 PGND PGND PGND PGND PGND PGND

FROM 1J04 OF SSB BOARD B16

1002 F003 F004 F005 F006

AUDIO-L 5004 2u2 EMC I001 2008 100p 2009 100p

AUDIO-R 5002 2u2 EMC I004 5003 2u2 EMC RES 2051 100p 2006 100p 2007 100p

CGND PGND PGND PGND PGND

SOUND-ENABLE 5005 2u2 EMC I008 2027 100n 2028 100n

SD2 ONLY 4003 I009

SD1 ONLY 3045 10K RES I010 7005 BC847BW RES 3044 33K RES

2064 RES 3004 10K I002 2013 220n I003 3008 2K2

VP_SGN 3013 10K 3003 22K CGND

3002 5K6 6001 RES

3039 10K 3038 68K RES 2047 1u0

6002 BAT54 COL I025 3046 1K0

HVPI-L 2012 220u 35V 3007 47K 2016 2n2

HVPI-L 2015 2n2 3006 1K0 2014 2n2 I027 3005 0R

I028 3037 3K9 3010 6K8 I011

VP 2020 220p 2021 220p PGND

VP_SGN VP 2062 47n I029 3009 220K 2017 100n PGND

3012 10R

7000 TDA8931 5 17V9 18 18V2 VDDA VDDP

POWER COMPARATOR

9V 3 IN- 4 IN+ I005

5V6 6 POWERUP

3V 7 G

PGND12 OVP

OUT 16 8V5 BOOT 17 I014 19V8 STABI 14 I015 12V5 DIAG 8 I031 12V5 HVP 13 9V HVPI 19 9V I012

CGND 9 VSSA 2 VSSP 15 VSSD 1 10 11 20

I013 5006 33u / 2.7A 2018 15n 2019 2u2 50V I030 3042 10K 3011 2K2

2022 220n I017 3014 22R 2023 470n 3040 10K 2024 1m0 25V PGND

2010 100n 2026 220n PGND PGND PGND PGND

HVPI-L HVPI-R

2049 4u7 PGND

2031 2n2 3023 1K0 2030 2n2

VP 2035 220p 2036 220p PGND

I033 3032 3K9 3022 22R 3026 6K8 I035 3030 10R

VP_SGN VP 2063 47n I034 3027 220K 2034 100n PGND

7001 TDA8931 5 17V9 18 18V2 VDDA VDDP

POWER COMPARATOR

9V 3 IN- 4 IN+ I020

5V6 6 POWERUP

3V 7 G

12 OVP

OUT 16 8V5 BOOT 17 I024 19V8 STABI 14 12V5 DIAG 8 I037 12V5 HVP 13 9V HVPI 19 9V I016

CGND 9 VSSA 2 VSSP 15 VSSD 1 10 11 20

I023 5007 33u / 2.7A 2038 15n 2037 2u2 50V I036 3043 10K 3029 2K2

2045 220n I021 3031 22R 2042 470n 3041 10K 2043 1m0 25V PGND

6003 BAT54 COL I026 3047 1K0

4001 RES I019 VP 3034 3K9 2039 10u I041 2041 10u I042 3028 10K 3019 10K I043 7004 TL431ACDBV 3021 4K7 I022 CGND

PHASE INVERTER (UNITY GAIN)

2029 220u 35V 3024 47K 2032 2n2 2065 RES 3020 10K 2033 220n 3025 2K2 I040 3033 10K CGND

Speeker Impedance	5006 & 5007	2023 & 2042
4 ohm	22uH	680n
6 ohm Selected	33uH	470n
8 ohm	47uH	330n

1001 L- L+ R- R+ F009 F010 F011 F012 L R

*Connection Inverted (R_CH)

2052 2n2 2053 2n2 2054 2n2 2055 2n2 PGND PGND PGND PGND

RESERVED 2060 2n2 (Mounting Hole) PGND 2061 2n2 (Mounting Hole) PGND

1001 E12	4003 D4	2031 2n2	I020 F6
1002 C2	5001 A3	2032 2n2	I021 F9
1003 A2	5002 C3	2033 220n	I022 G4
2001 B2	5003 C2	2034 100n	I023 F8
2002 B3	5004 B3	2035 220p	I024 F8
2003 B3	5005 D3	2036 220p	I025 D6
2004 B4	5006 C8	2037 2u2 50V	I026 G6
2006 C3	5007 F9	2038 15n	IXXX F3
2007 C3	6001 C4	2039 10u	IXXX F4
2008 C3	6002 C6	2041 10u	IXXX F4
2009 C3	6003 F6	2042 470n	IXXX F5
2010 C8	7000 C6	2043 1m0 25V	IXXX B6
2012 A5	7001 F6	2044 100n	IXXX E6
2013 B5	7004 F4	2045 220n	IXXX E6
2014 A8	7005 D4	2047 C5	IXXX B7
2015 A7	F001 A2	2048 B4	IXXX A8
2016 A6	F002 B2	2049 D6	IXXX C8
2017 B7	F003 C2	2051 C3	IXXX C8
2018 C8	F004 C2	2052 E10	IXXX E8
2019 C8	F005 C2	2053 E10	IXXX F8
2020 A9	F006 C2	2054 E11	IXXX F8
2021 B9	F007 A3	2055 E11	IXXX F8
2022 C9	F008 A3	2060 F11	
2023 C9	F009 E11	2061 F11	
2024 C9	F010 E11	2062 B6	
2026 C8	F011 E11	2063 E6	
2027 D3	F012 E11	2064 B4	
2028 D3	I001 B3	2065 F5	
2029 F5	I002 B5	3001 A3	
2030 D7	I003 B5	3002 C4	
2031 E7	I004 C3	3003 C4	
2032 F5	I005 C6	3004 B4	
2033 F5	I006 C6	3005 B8	
2034 E7	I007 C6	3006 A7	
2035 E9	I008 D3	3007 B5	
2036 E9	I009 D4	3008 B5	
2037 F8	I010 D4	3009 B7	
2038 F8	I011 B8	3010 B8	
2039 F3	I012 C8	3011 C8	
2040 G8	I013 C8	3012 B8	
2041 F4	I014 C8	3013 C5	
2042 F9	I015 C8	3014 C9	
2043 F10	I016 F8	3019 F3	
2044 G8	I017 C9	3020 F5	
2045 F9	I019 E4	3021 G3	
2047 C5	I020 F6	3022 E7	
2048 B4	I021 F9	3023 E7	
2049 D6	I022 G4	3024 F5	
2051 C3	I023 F8	3025 F5	
2052 E10	I024 F8	3026 E8	
2053 E10	I025 D6	3027 E7	
2054 E11	I026 G6	3028 F4	
2055 E11	IXXX F3	3029 F8	
2060 F11	IXXX F4	3030 E8	
2061 F11	IXXX F4	3031 F9	
2062 B6	IXXX F5	3032 E7	
2063 E6	IXXX B6	3033 F5	
2064 B4	IXXX E6	3034 F4	
2065 F5	IXXX E6	3037 B7	
3001 A3	IXXX B7	3038 C5	
3002 C4	IXXX A8	3039 C5	
3003 C4	IXXX C8	3040 C9	
3004 B4	IXXX C8	3041 F10	
3005 B8	IXXX E8	3042 C8	
3006 A7	IXXX F8	3043 F8	
3007 B5	IXXX F8	3044 D4	
3008 B5	IXXX F8	3045 D4	
3009 B7		3046 D6	
3010 B8		3047 G6	
3011 C8		4001 E4	
3012 B8			
3013 C5			
3014 C9			
3019 F3			
3020 F5			
3021 G3			
3022 E7			
3023 E7			
3024 F5			
3025 F5			
3026 E8			
3027 E7			
3028 F4			
3029 F8			
3030 E8			
3031 F9			
3032 E7			
3033 F5			
3034 F4			
3037 B7			
3038 C5			
3039 C5			
3040 C9			
3041 F10			
3042 C8			
3043 F8			
3044 D4			
3045 D4			
3046 D6			
3047 G6			
4001 E4			

3139 123 5970.2

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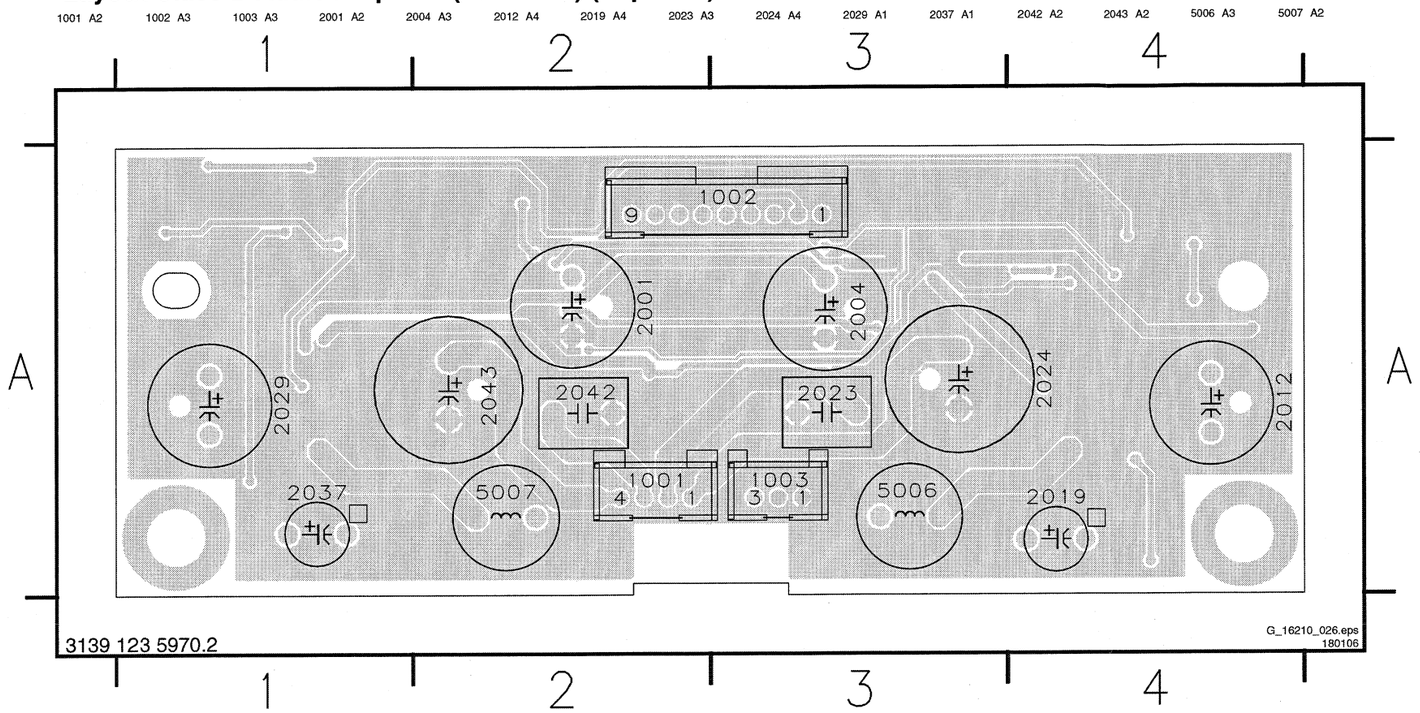
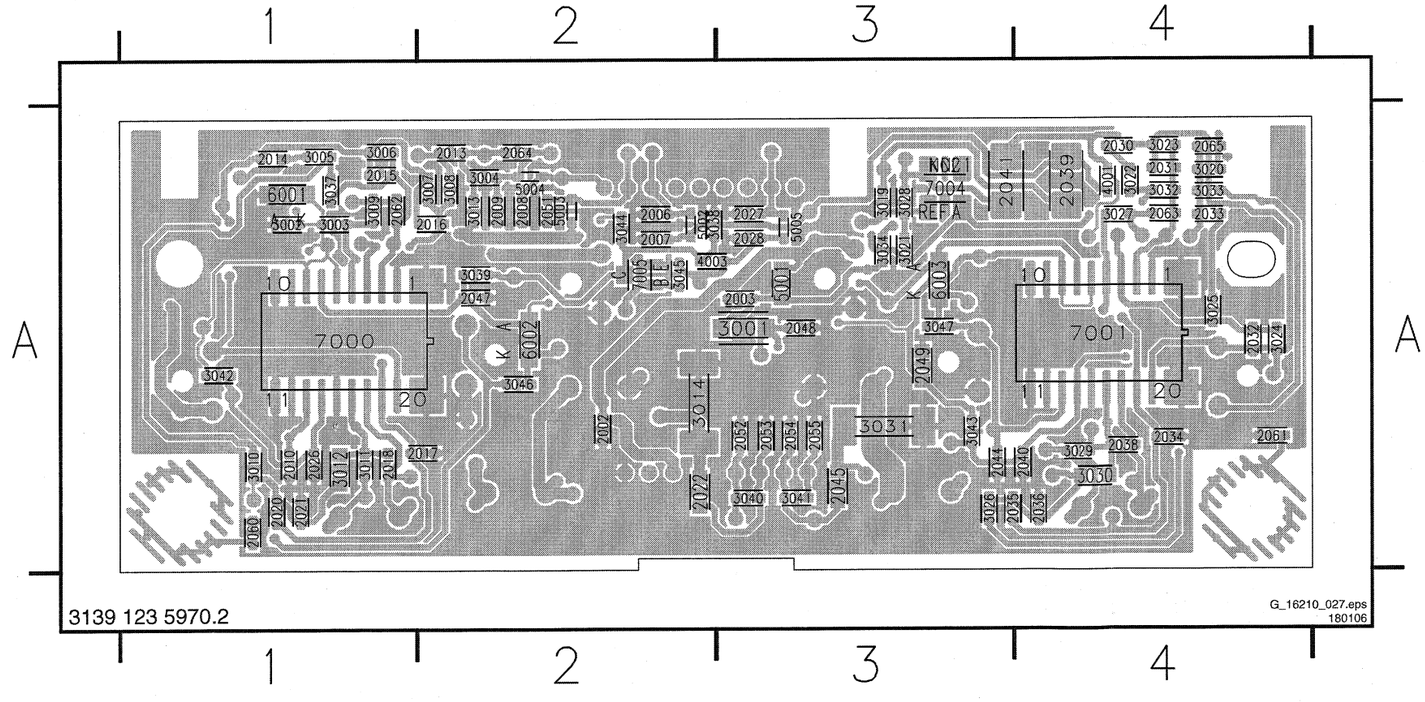
Layout Class D Audio Amplifier (26” & 32”) (Top Side)

1001 A2 1002 A3 1003 A3 2001 A2 2004 A3 2012 A4 2019 A4 2023 A3 2024 A4 2029 A1 2037 A1 2042 A2 2043 A2 5006 A3 5007 A2



Layout Class D Audio Amplifier (26” & 32”) (Bottom Side)

2002 A2 2003 A3 2006 A2 2007 A2 2008 A2 2009 A2 2010 A1
2013 A2 2014 A1 2015 A1 2016 A2 2017 A2 2018 A1 2020 A1
2021 A1 2022 A2 2026 A1 2027 A3 2028 A3 2030 A4 2031 A4
2032 A4 2033 A4 2034 A4 2035 A3 2036 A4 2038 A4 2039 A4
2040 A4 2041 A3 2044 A3 2045 A3 2047 A2 2048 A3 2049 A3
2051 A2 2052 A3 2053 A3 2054 A3 2055 A3 2060 A1 2061 A4
2062 A1 2063 A4 2064 A4 2065 A4 3001 A3 3002 A1 3003 A1
3004 A2 3005 A1 3006 A1 3007 A2 3008 A2 3009 A1 3010 A1
3011 A1 3012 A1 3013 A2 3014 A2 3019 A3 3020 A4 3021 A3
3022 A4 3023 A4 3024 A4 3025 A4 3026 A3 3027 A4 3028 A3
3029 A4 3030 A4 3031 A4 3032 A4 3033 A4 3034 A3 3037 A1
3038 A2 3039 A2 3040 A3 3041 A3 3042 A1 3043 A3 3044 A2
3045 A2 3046 A2 3047 A3 4001 A4 4003 A2 5001 A3 5002 A2
5003 A2 5004 A2 5005 A3 6001 A1 6002 A2 6003 A3 7000 A1
7001 A4 7004 A3 7005 A2



Side I/O Panel (26" & 32")

SIDE I/O (26" & 32" ONLY)

SVHS
1301
I301
I302
I303
3302 10R
2301 RES
EMC 2302 47p
3303 10R
2303 RES
EMC 2304 47p
3301 75R
S301
S302
6301 RES
6303 RES
I305
I309
6302 RES
6304 RES
3304 75R
I307

CVBS
1302-1 1
2
YELLOW
I320
S303
2305 RES
+5VSW
3305 10K
3307 1K0
I319
2310 1u0
3309 75R
3310 8K2
BC857B 7301

L
1302-2 3
4
WHITE
S304
6305 RES
3306 15K
2306 330p
I318
6307 RES
I308

R
1302-3 5
6
RED
S305
6306 RES
3308 15K
2307 330p
I317
6308 RES
+5VSW
3311 10K

HEADPHONE
1303
TC38-103-01
S306
S307
S308
S309
2308 10n
2309 10n

+5VSW
(1M06)
1304
FRONT_Y__CVBS_IN I310
FRONT_C_IN I311
L_FRONT_IN I304
I312
R_FRONT_IN I306
I313
HEAD_PH_L I314
HP_DET_R_DC1 I315
HEAD_PH_R I316
B 1 7
TO 1K01/1K04 OF SSB BD

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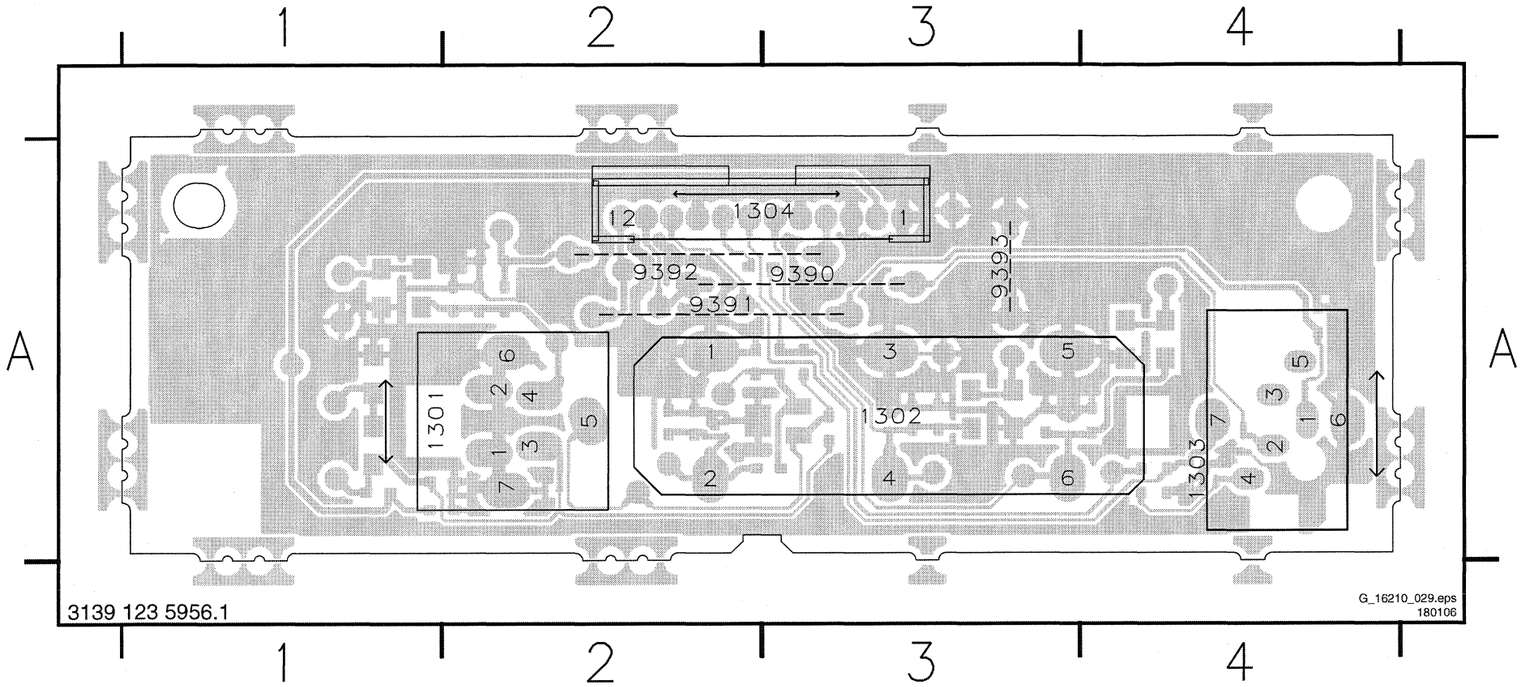
1301 A1
1302-1 B1
1302-2 C1
1302-3 D1
1303 E1
1304 C8
2301 A4
2302 A4
2303 A4
2304 A4
2305 C2
2306 D3
2307 D3
2308 E3
2309 E3
2310 C3
3301 A2
3302 A4
3303 A4
3304 B3
3305 C3
3306 D3
3307 C3
3308 D3
3309 C2
3310 C3
3311 E3
6301 A3
6302 B3
6303 A3
6304 B3
6305 D2
6306 D2
6307 D2
6308 E2
7301 C3
I301 A2
I302 A2
I303 A3
I304 C8
I305 B3
I306 D8
I307 B1
I308 D3
I309 B3
I310 C8
I311 C8
I312 C8
I313 D8
I314 D8
I315 D8
I316 D8
I317 E2
I318 D2
I319 C3
I320 C2
S301 A2
S302 A2
S303 C2
S304 D2
S305 D2
S306 E2
S307 E2
S308 E2
S309 E2

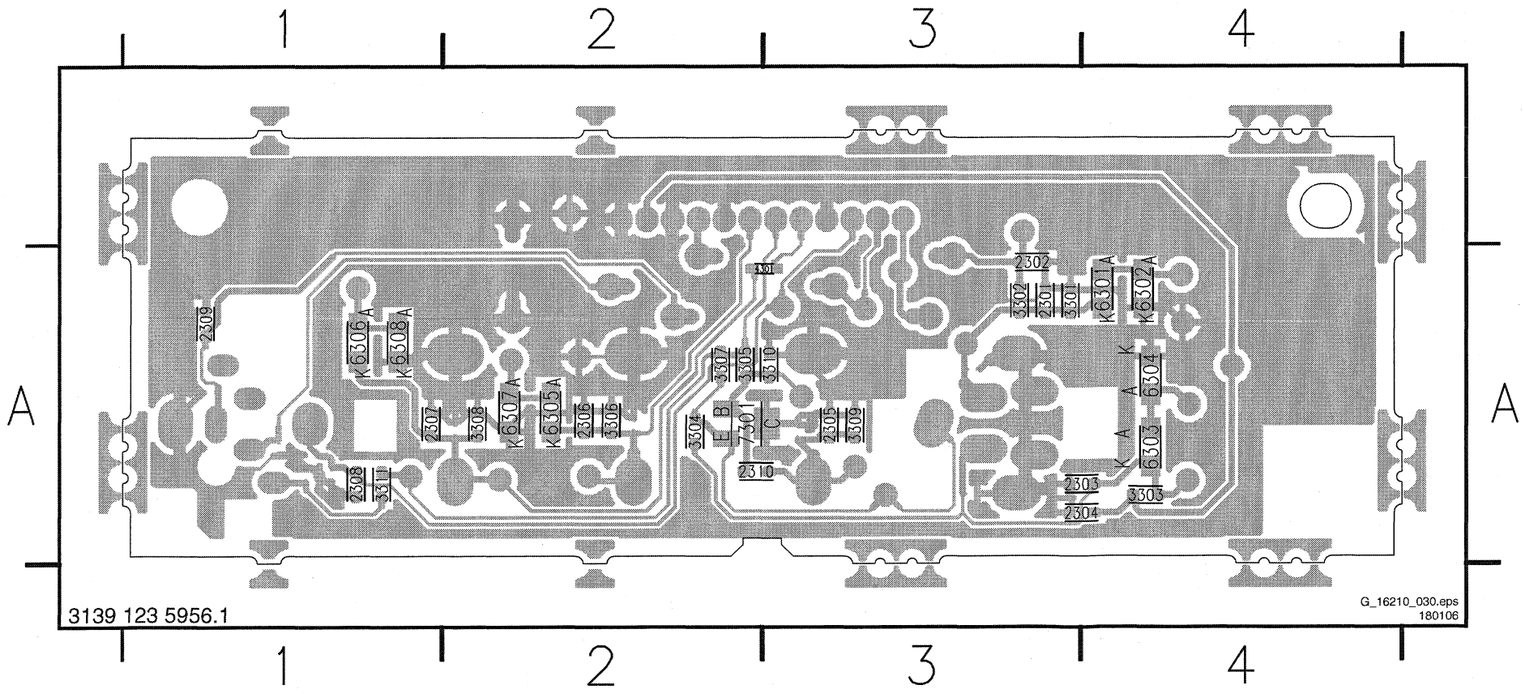
Layout Side I/O Panel (26” & 32”) (Top Side)

1301 A1 1302 A3 1303 A4 1304 A2 9390 A3 9391 A2 9392 A2 9393 A3

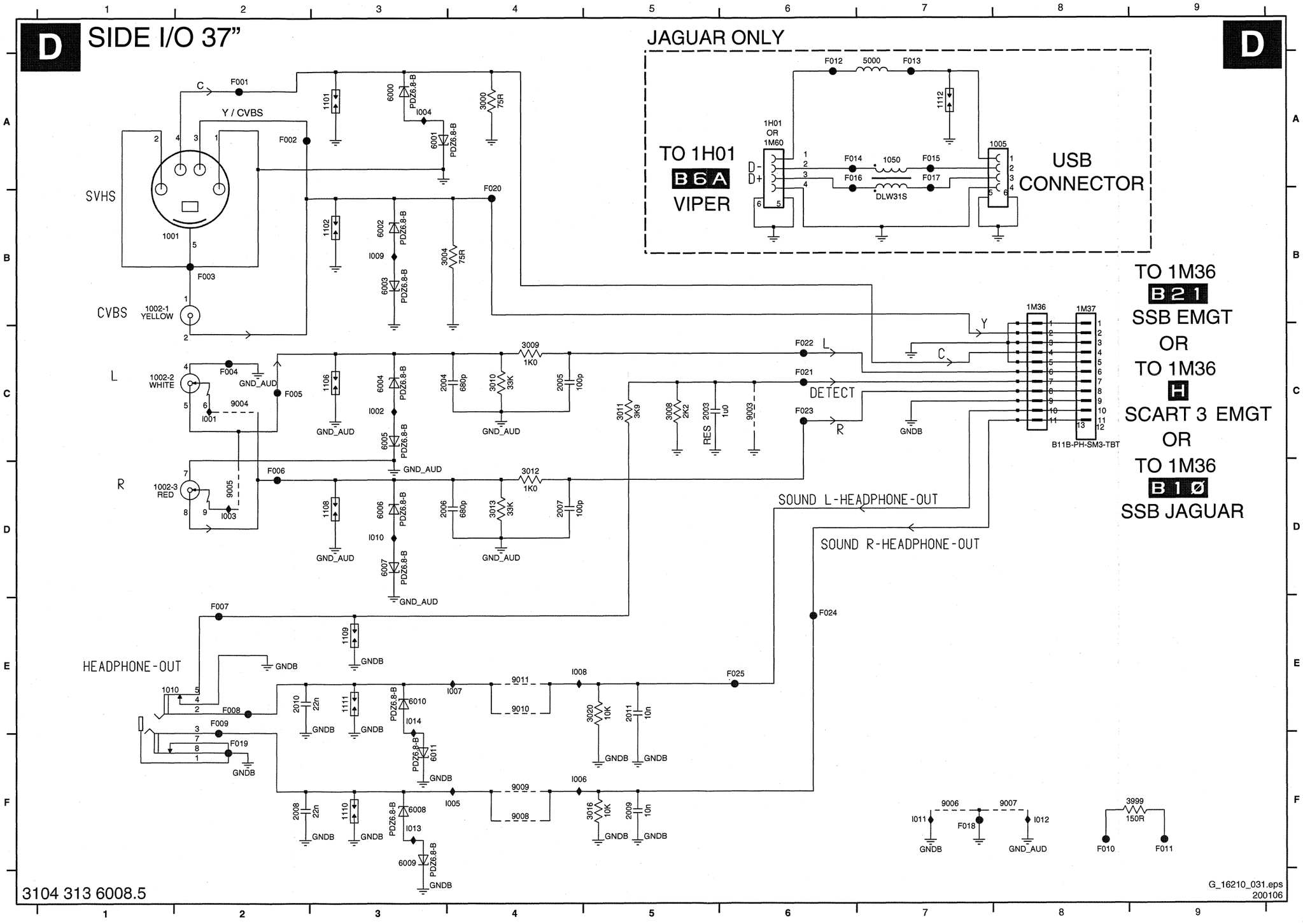


Layout Side I/O Panel (26” & 32”) (Bottom Side)

2301 A3 2304 A3 2307 A1 2310 A2 3303 A4 3306 A2 3309 A3 4301 A3 6303 A4 6306 A1 7301 A2
2302 A3 2305 A3 2308 A1 3301 A3 3304 A2 3307 A2 3310 A3 6301 A4 6304 A4 6307 A2
2303 A3 2306 A2 2309 A1 3302 A3 3305 A2 3308 A2 3311 A1 6302 A4 6305 A2 6308 A1

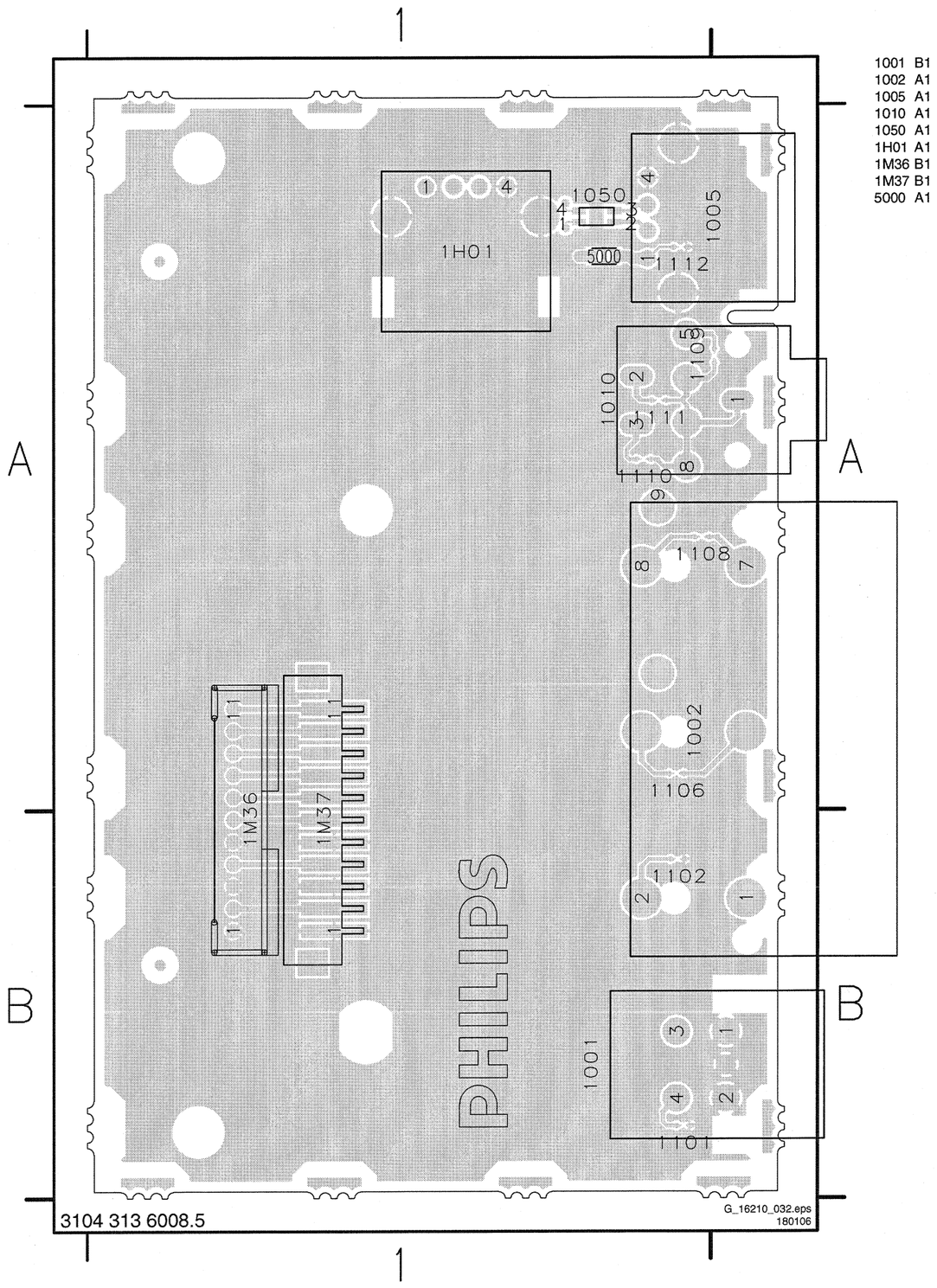


Side I/O Panel (37" & 42")

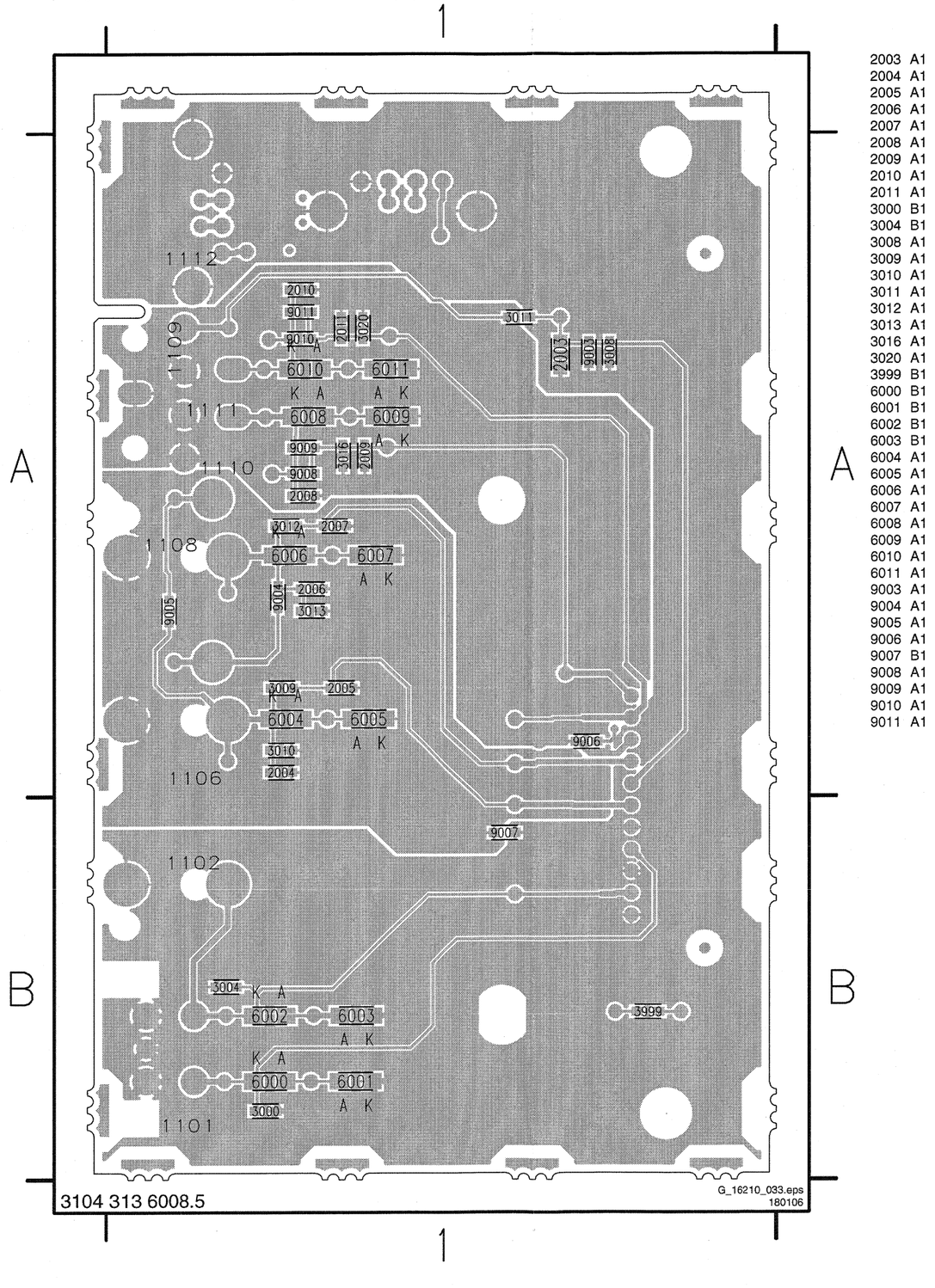


1001	B2	F002	A2
1002-1	B1	F003	B2
1002-2	C1	F004	C2
1002-3	D1	F005	C2
1005	A8	F006	D2
1010	E1	F007	E2
1050	A7	F008	E2
1101	A3	F009	E2
1102	B3	F010	F8
1106	C3	F011	F9
1108	D3	F012	A6
1109	E3	F013	A7
1110	F3	F014	A6
1111	E3	F015	A7
1112	A7	F016	A6
1H01	A6	F017	A7
1M36	B8	F018	F7
1M37	B8	F019	F2
2003	C5	F020	B4
2004	C3	F021	C6
2005	C4	F022	C6
2006	D3	F023	C6
2007	D4	F024	E6
2008	F2	F025	E6
2009	F5	I001	C2
2010	E2	I002	C3
2011	E5	I003	D2
3000	A4	I004	A3
3004	B3	I005	F4
3008	C5	I006	F4
3009	C4	I007	E4
3010	C4	I008	E4
3011	C5	I009	B3
3012	D4	I010	D3
3013	D4	I011	F7
3016	F5	I012	F8
3020	E5	I013	F3
3999	F9	I014	E3
5000	A7		
6000	A3		
6001	A3		
6002	B3		
6003	B3		
6004	C3		
6005	C3		
6006	D3		
6007	D3		
6008	F3		
6009	F3		
6010	E3		
6011	F3		
9003	C6		
9004	C2		
9005	D2		
9006	F7		
9007	F8		
9008	F4		
9009	F4		
9010	E4		
9011	E4		
F001	A2		

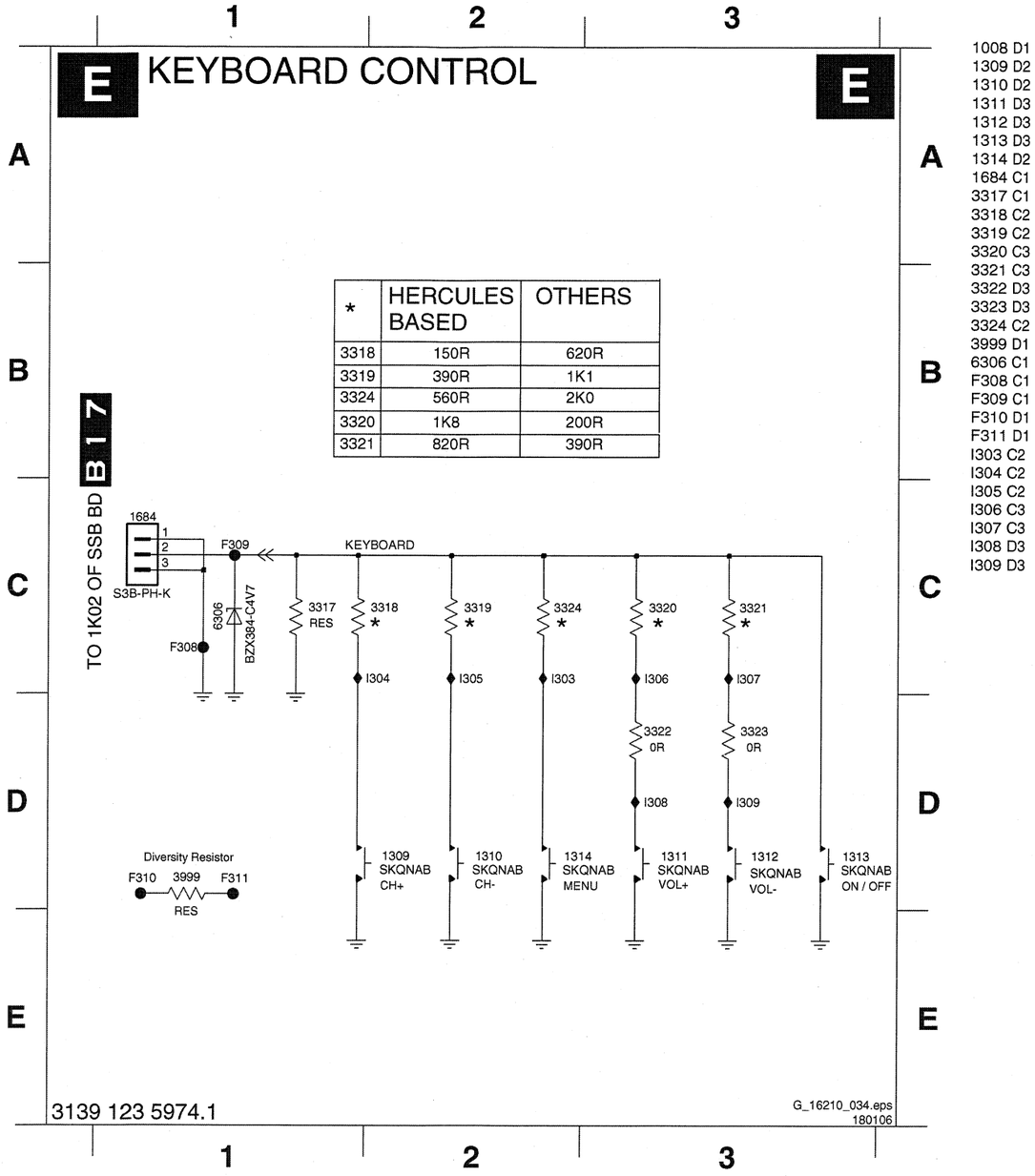
Layout Side I/O Panel (37” & 42”) (Top Side)



Layout Side I/O Panel (37” & 42”) (Bottom Side)



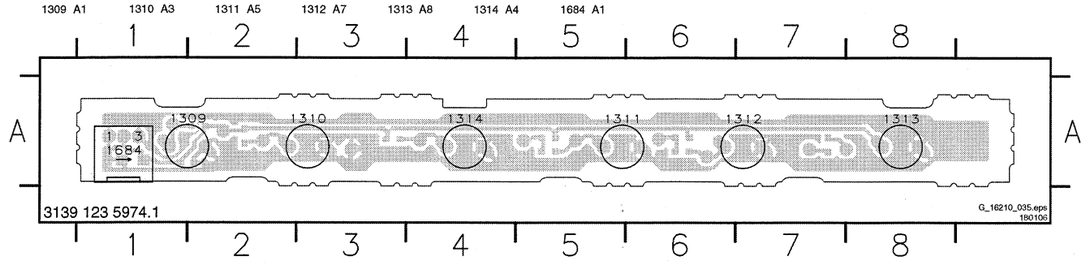
Keyboard Control Board (26" & 32")



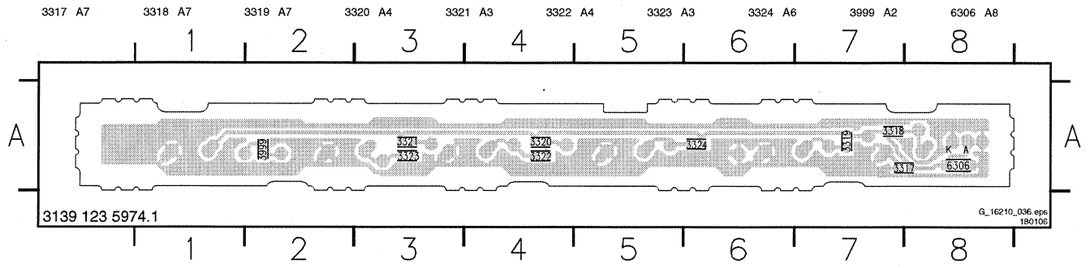
*	HERCULES BASED	OTHERS
3318	150R	620R
3319	390R	1K1
3324	560R	2K0
3320	1K8	200R
3321	820R	390R

1008 D1
1309 D2
1310 D2
1311 D3
1312 D3
1313 D3
1314 D2
1684 C1
3317 C1
3318 C2
3319 C2
3320 C3
3321 C3
3322 D3
3323 D3
3324 C2
3999 D1
6306 C1
F308 C1
F309 C1
F310 D1
F311 D1
I303 C2
I304 C2
I305 C2
I306 C3
I307 C3
I308 D3
I309 D3

Layout Keyboard Control Board (26" & 32") (Top Side)

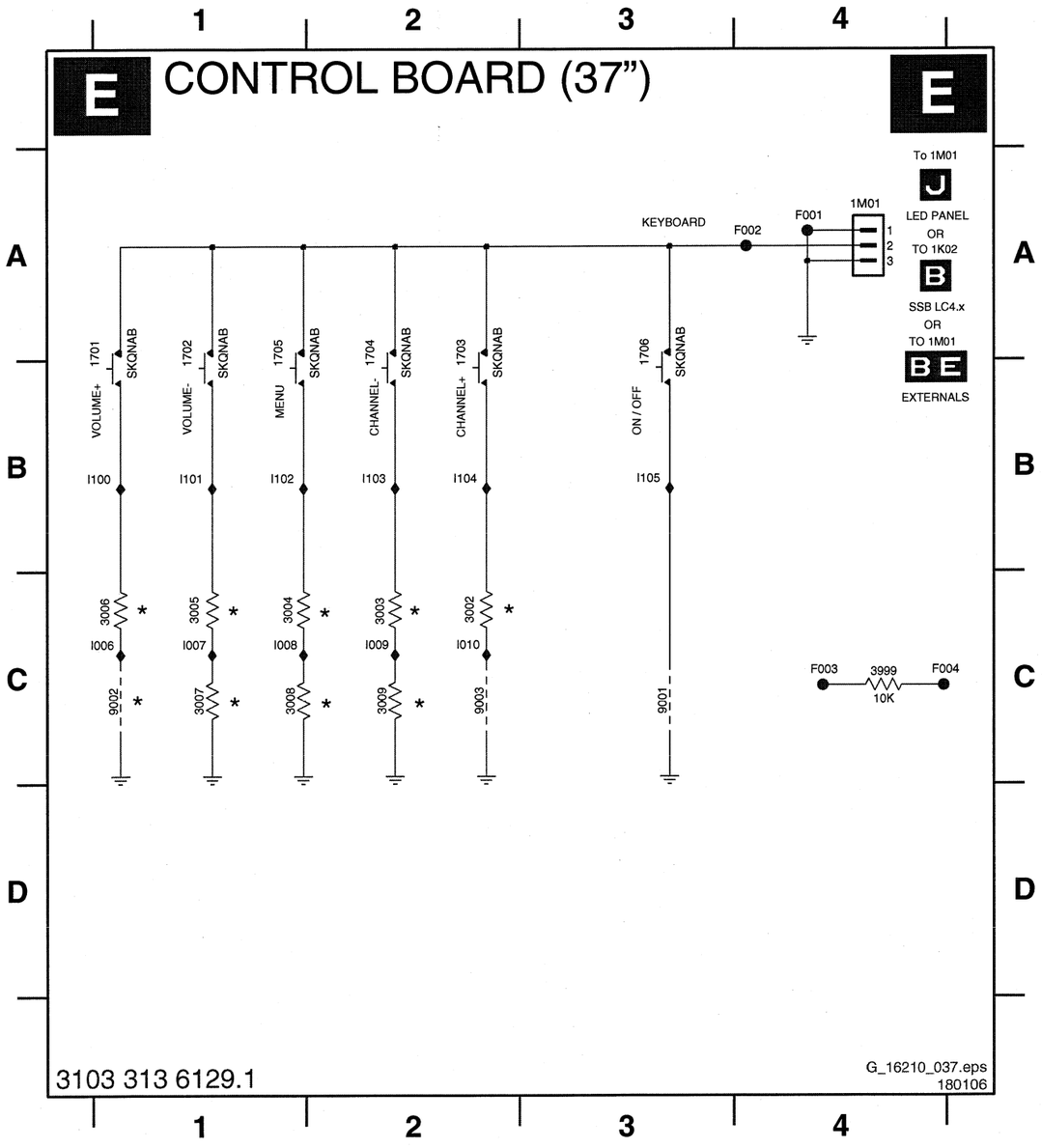


Layout Keyboard Control Board (26" & 32") (Bottom Side)

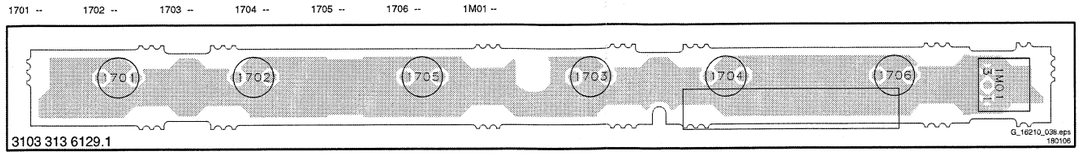


Keyboard Control Board (37” & 42”)

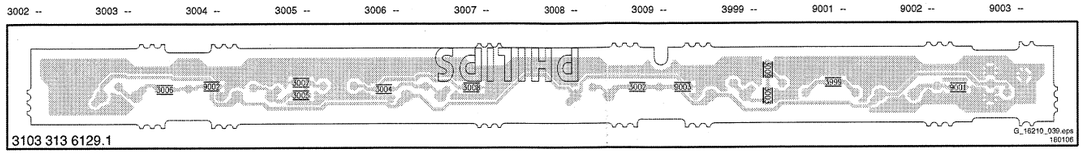
1701 A1	1704 A2	1M01 A4	3004 C1	3007 C1	3999 C4	9003 C2	F003 C4	I007 C1	I010 C2	I102 B1	I105 B3
1702 A1	1705 A1	3002 C2	3005 C1	3008 C1	9001 C3	F001 A4	F004 C4	I008 C1	I100 B1	I103 B2	
1703 A2	1706 A3	3003 C2	3006 C1	3009 C2	9002 C1	F002 A4	I006 C1	I009 C2	I101 B1	I104 B2	



Layout Keyboard Control Board (37” & 42”) (Top Side)

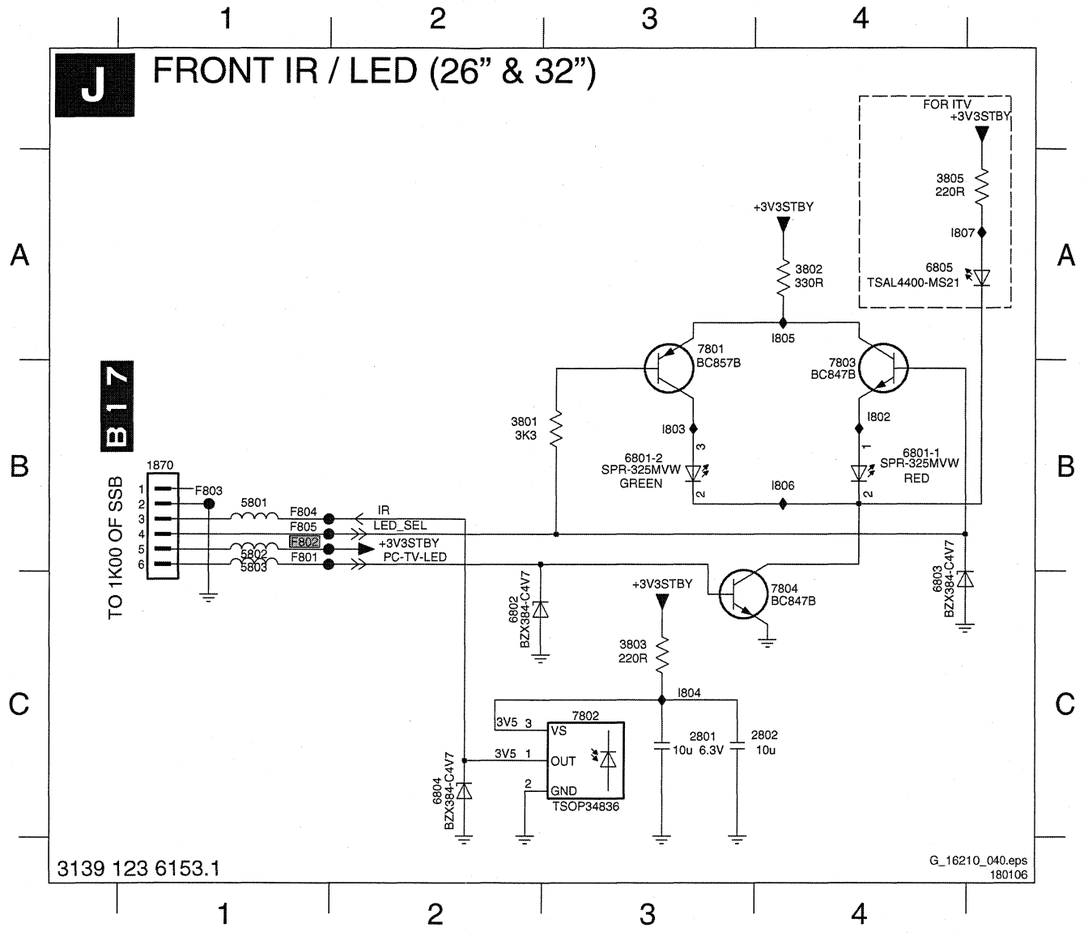


Layout Keyboard Control Board (37” & 42”) (Bottom Side)



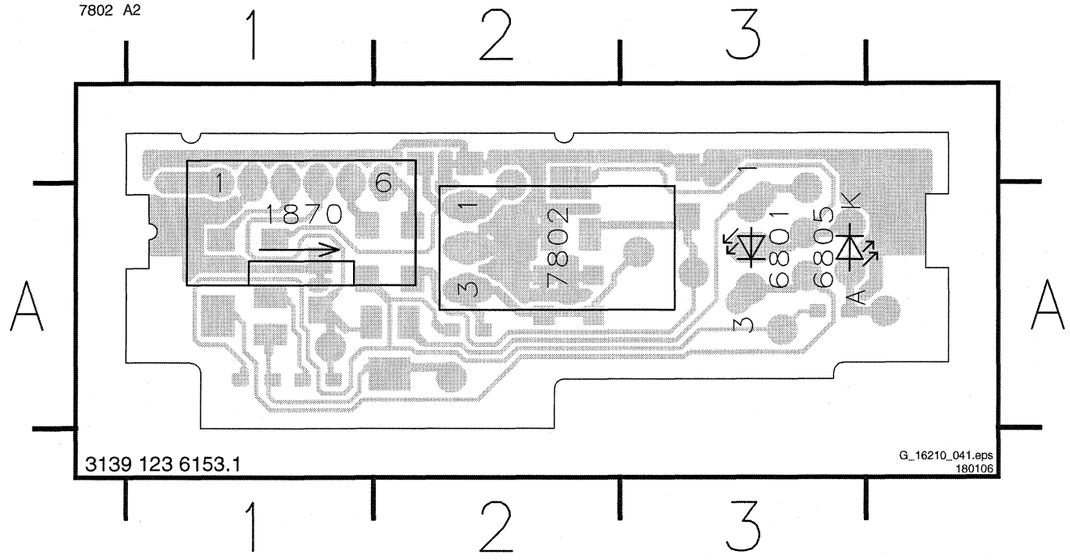
Front IR / LED Panel (26” & 32”) (ME5P)

1870 B1	3802 A4	5802 B1	6802 C2	7801 A3	F801 B1	F805 B1	I805 A4
2801 C3	3803 C3	5803 C1	6803 C4	7802 C3	F802 B1	I802 B4	I806 B4
2802 C4	3805 A4	6801-1 B4	6804 C2	7803 B4	F803 B1	I803 B3	I807 A4
3801 B2	5801 B1	6801-2 B3	6805 A4	7804 C4	F804 B1	I804 C3	



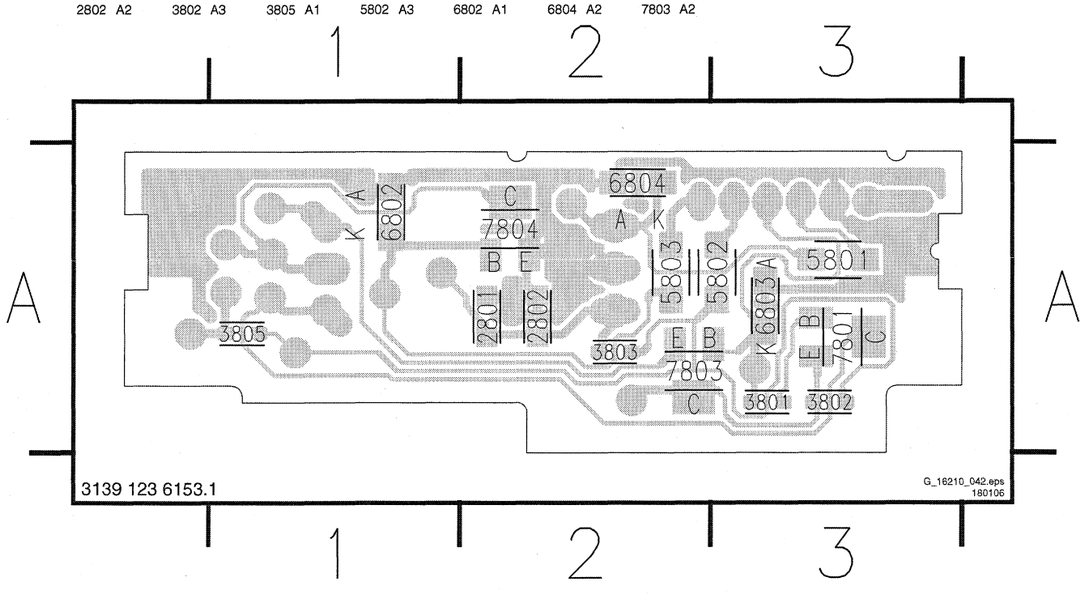
Layout Front IR / LED Panel (26” & 32”) (ME5P) (Top Side)

1870 A1
6801 A3
6805 A3
7802 A2



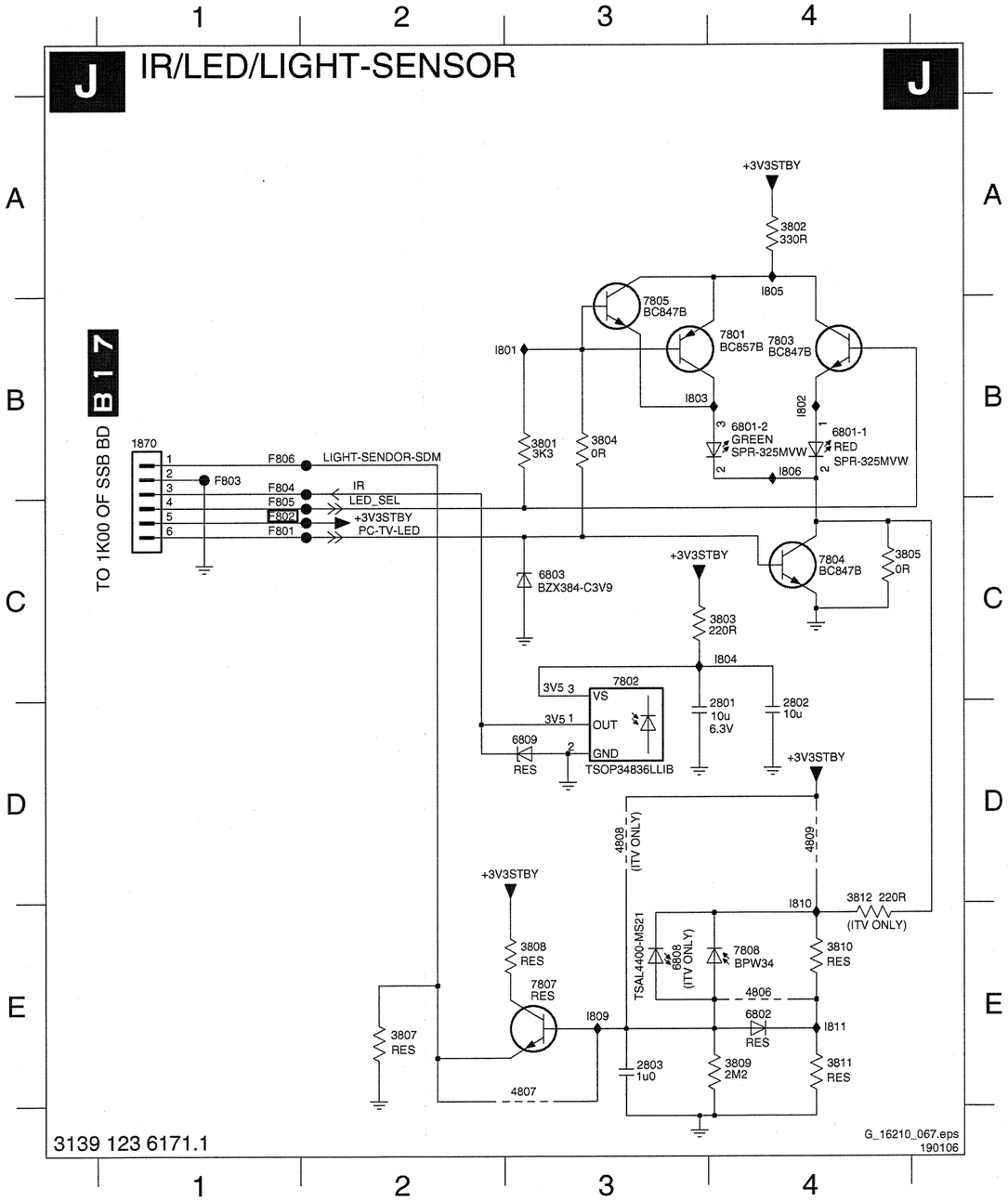
Layout Front IR / LED Panel (26” & 32”) (ME5P) (Bottom Side)

2801 A2	3801 A3	3803 A2	5801 A3	5803 A2	6803 A3	7801 A3	7804 A2
2802 A2	3802 A3	3805 A1	5802 A3	6802 A1	6804 A2	7803 A2	



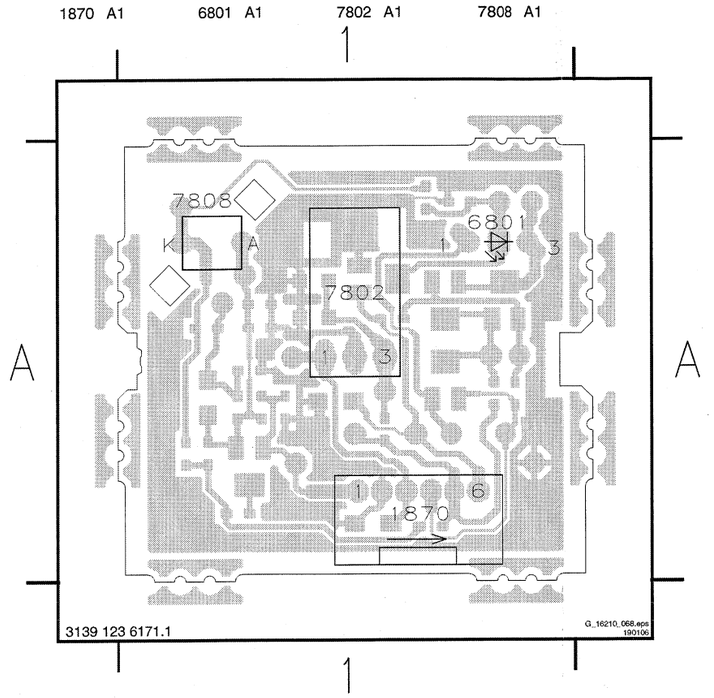
IR-LED and Light Sensor Panel (26"& 32")

1870 B1	3802 A4	3808 E3	4806 E4	6801-2 B4	7802 C3	7808 E4	F805 C1	I804 C4	I811 E4
2801 D4	3803 C4	3809 E4	4807 E3	6802 E4	7803 B4	F801 C1	F806 B1	I805 A4	
2802 D4	3804 B3	3810 E4	4808 D3	6803 C3	7804 C4	F802 C1	I801 B3	I806 B4	
2803 E3	3805 C4	3811 E4	4809 D4	6809 D3	7805 B3	F803 B1	I802 B4	I809 E3	
3801 B3	3807 E2	3812 D4	6801-1 B4	7801 B4	7807 E3	F804 B1	I803 B3	I810 E4	



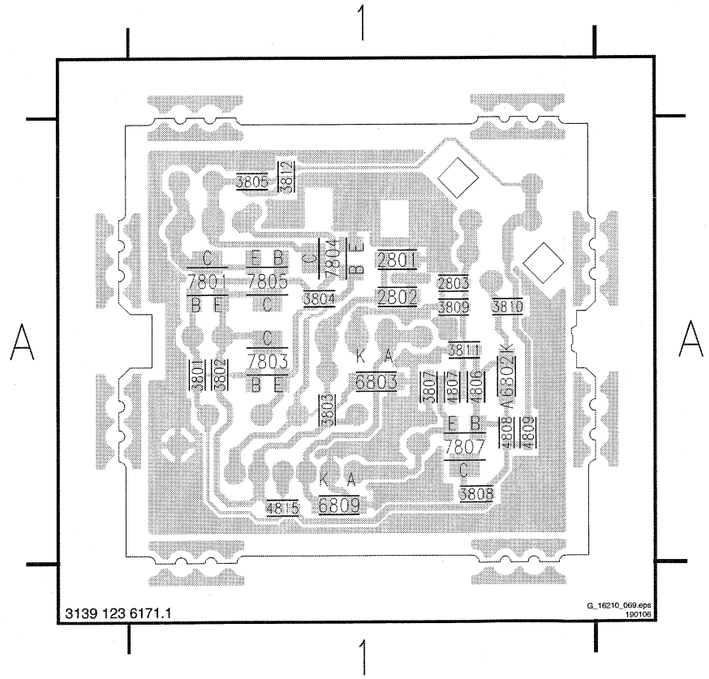
Layout IR-LED and Light Sensor Panel (26"& 32") (Top Side)

1870 A1 6801 A1 7802 A1 7808 A1



Layout IR-LED and Light Sensor Panel (26"& 32") (Bottom Side)

2801	A1	3802	A1	3807	A1	3811	A1	4808	A1	6803	A1	7804	A1
2802	A1	3803	A1	3808	A1	3812	A1	4809	A1	6809	A1	7805	A1
2803	A1	3804	A1	3809	A1	4806	A1	4815	A1	7801	A1	7807	A1
3801	A1	3805	A1	3810	A1	4807	A1	6802	A1	7803	A1		



Front IR / LED Panel (37” & 42”)

LED PANEL (37”)

TO 1M20 B SSB JL2.x / LC4.x OR TO 1M20 B E EXTERNALS FTX2.x / BX2.x

TO 1M01 E CONTROL BOARD

TO 0345 E TOP CONTROL

"BLUE" or "GREEN"

"RED"

"LED DIMMING"

"IR RECEIVER"

"LIGHT SENSOR"

0001 A10	9119 E2
0002 A11	9120 B10
0345 D2	9121 B11
1040 F9	9122 F11
1M01 C2	F010 A3
1M20 A2	F011 A3
2014 C4	F012 A3
2030 G5	F013 B3
2040 F9	F014 B3
2070 F12	F015 A3
2071 G12	F016 B3
3011 A4	F017 B3
3030 G4	F018 B2
3031 G5	F021 C3
3032 G5	F038 B12
3033 G5	F039 B12
3034 G6	F083 D3
3035 G6	F084 D3
3036 G7	F086 E3
3037 G7	F089 E3
3040 F9	I010 F2
3041 G9	I011 G2
3042 F9	I012 E3
3051 B8	I013 E4
3052 B8	I026 F12
3053 C8	I033 G4
3054 C8	I037 G7
3055 C8	I038 G6
3056 D6	I039 G4
3061 B6	I040 G5
3062 B6	I041 G9
3063 D5	I042 G9
3064 D5	I043 F9
3070 G11	I044 F9
3071 F12	I045 F9
3072 G13	I046 E9
3073 G13	I047 G4
3074 F13	I048 G5
3075 F14	I049 G7
3076 G14	I051 D8
3077 G12	I052 C8
3078 G11	I053 B9
3091 G2	I054 D7
3092 F2	I061 D6
3093 F3	I062 C6
3094 F2	I063 D7
3096 G3	I064 D5
3999 B12	I065 C9
6030 G4	I071 F11
6031 G4	I072 F14
6051 C8	I073 G12
6060 C6	I074 G12
6070 G11	I075 F12
7030 G6	I076 F13
7031 G7	I093 F2
7032 G4	I094 F3
7051 C8	I095 C6
7052 D8	
7061 D6	
7062 C6	
7070-1 F12	
7070-2 G13	
7092 F2	
9011 C6	
9012 B4	
9015 A4	
9016 A4	
9017 A4	
9031 G4	
9040 G9	
9041 F9	
9042 G9	
9043 F9	
9052 C9	
9053 C8	
9054 D9	
9056 D7	
9062 D7	
9063 D8	
9064 B7	
9065 B7	
9066 D7	
9070 F11	
9071 F11	
9072 G11	
9081 E4	
9082 E3	
9083 D3	
9093 G2	
9110 D2	
9111 D4	
9112 D2	
9113 D4	
9114 E2	
9115 E4	
9116 E2	
9117 E4	
9118 E2	

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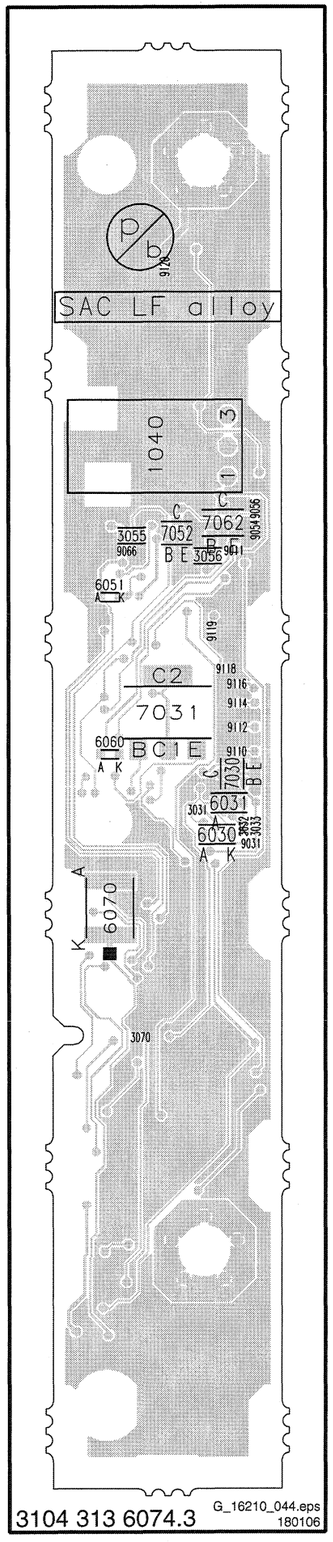
180106

3104 313 6074.3

Layout Front IR / LED Panel (37” & 42”) (Top Side)



1040 --
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7030 --
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7052 --
7062 --
9011 --
9031 --
9054 --
9056 --
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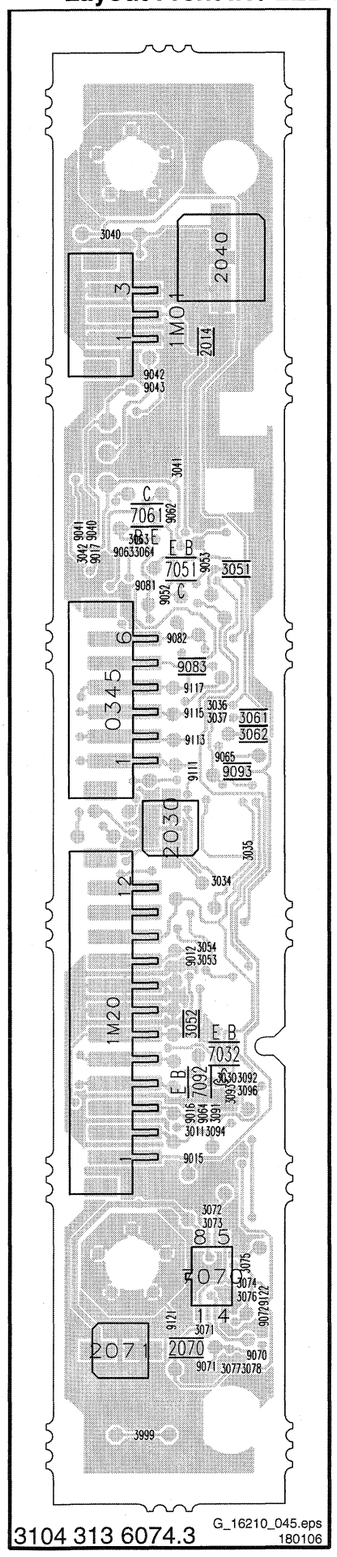
9110 --
9112 --
9114 --
9116 --
9118 --
9119 --
9120 --

Layout Front IR / LED Panel (37” & 42”) (Bottom Side)



0345 --
1M01 --
1M20 --
2014 --
2030 --
2040 --
2070 --
2071 --
3011 --
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3035 --
3036 --
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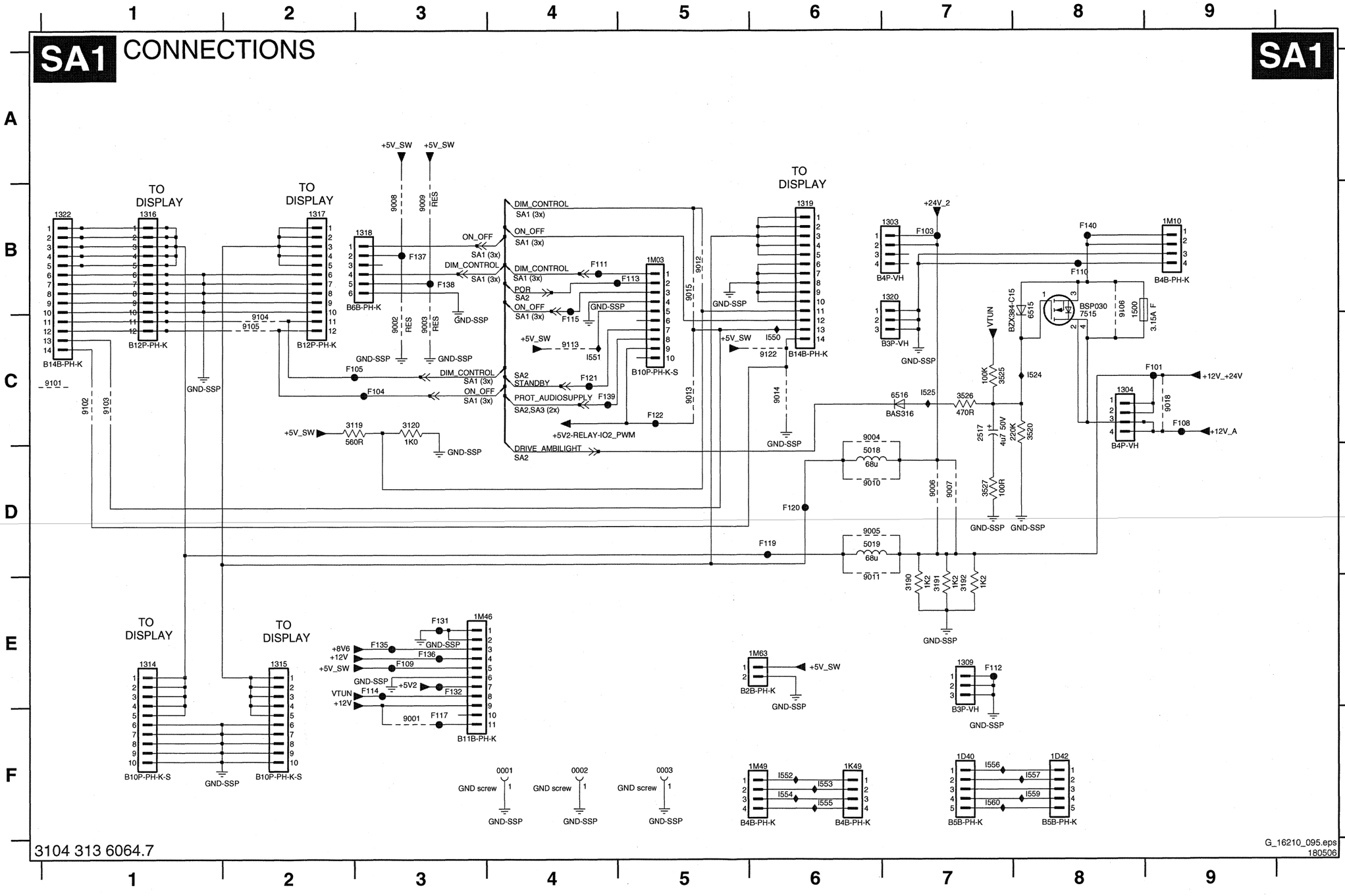
9122 --

Standby & Audio Panel: Connections

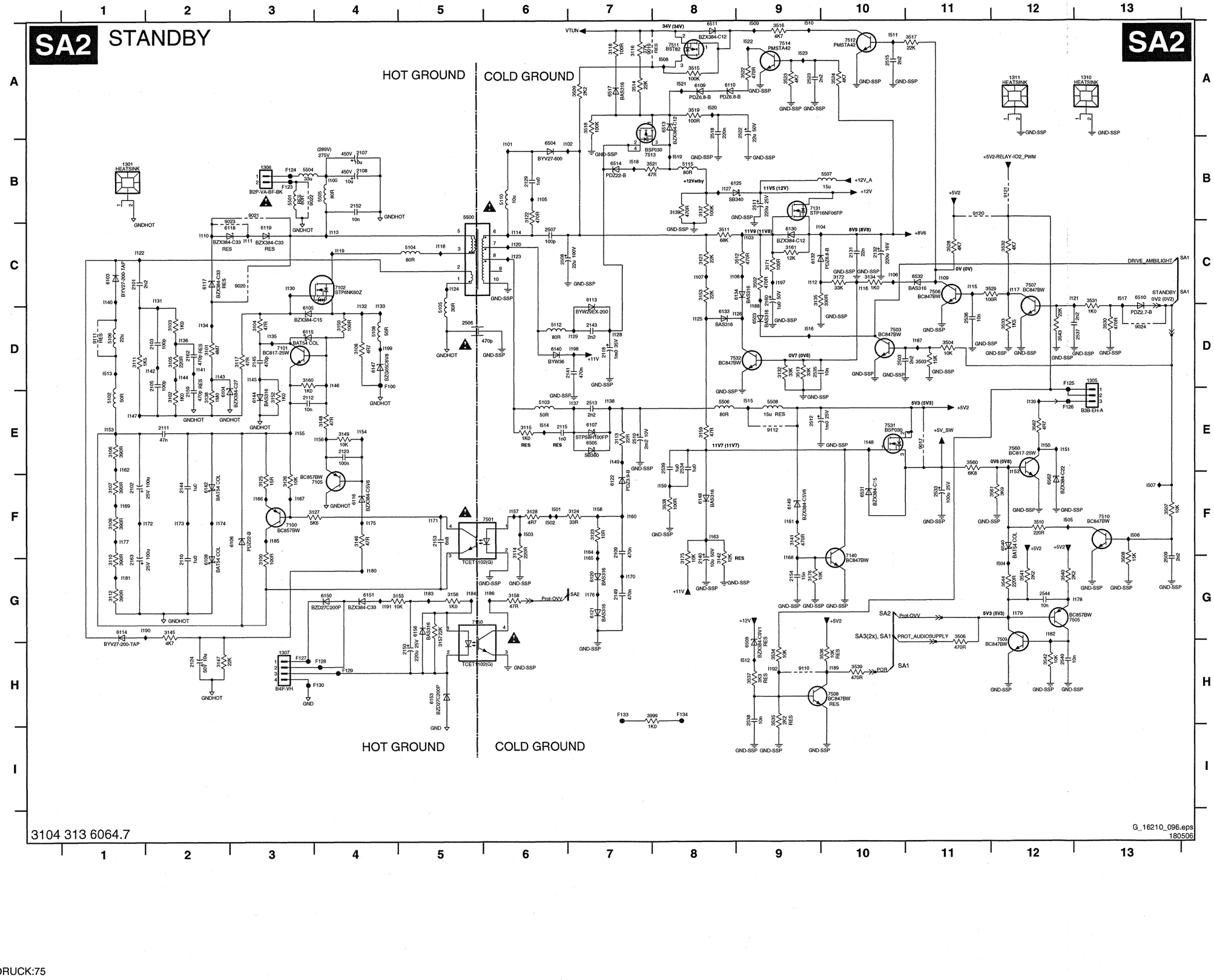
SA1 CONNECTIONS



SA1

A 1316 B1 F138 B3
1317 B2 F139 C4
1318 B3 F140 B8
1319 B6 I524 C8
1320 B7 I525 C7
1322 B1 I550 C6
1500 B8 I551 C4
1D40 F7 I552 F6
1D42 F8 I553 F6
1K49 F6 I554 F6
1M03 B5 I555 F6
1M10 B9 I556 F7
B 1M46 E4 I557 F8
1M49 F6 I559 F8
1M63 E6 I560 F7
2517 C7 F1
3119 C2 F101 C9
3120 C3 F103 B7
3190 E7 F104 C3
3191 E7 F105 C2
3192 E7 F108 C9
3520 C8 F109 E3
3525 C7 F110 B8
C 3526 C7 F111 B4
3527 D7 F112 E7
5018 D6 F113 B5
5019 D6 F114 E3
6515 B8 F115 C4
6516 C7 F117 F3
7515 B8 F119 D6
9001 F3
9002 C3
9003 C3
9004 C6
9005 D6
9006 D7
D 9007 D7
9008 B3
9009 B3
9010 D6
9011 E6
9012 B5
9013 C5
9014 C6
9015 B5
9016 B8
9018 C9
E 9101 C1
9102 C1
9103 C1
9104 C2
9105 C2
9113 C4
9122 C6
F101 C9
F103 B7
F104 C3
F105 C2
F108 C9
F109 E3
F110 B8
F111 B4
F112 E7
F113 B5
F114 E3
F115 C4
F117 F3
F119 D6
F120 D6
F121 C4
F122 C5
F131 E3
F132 E3
F135 E3
F136 E3
F137 B3

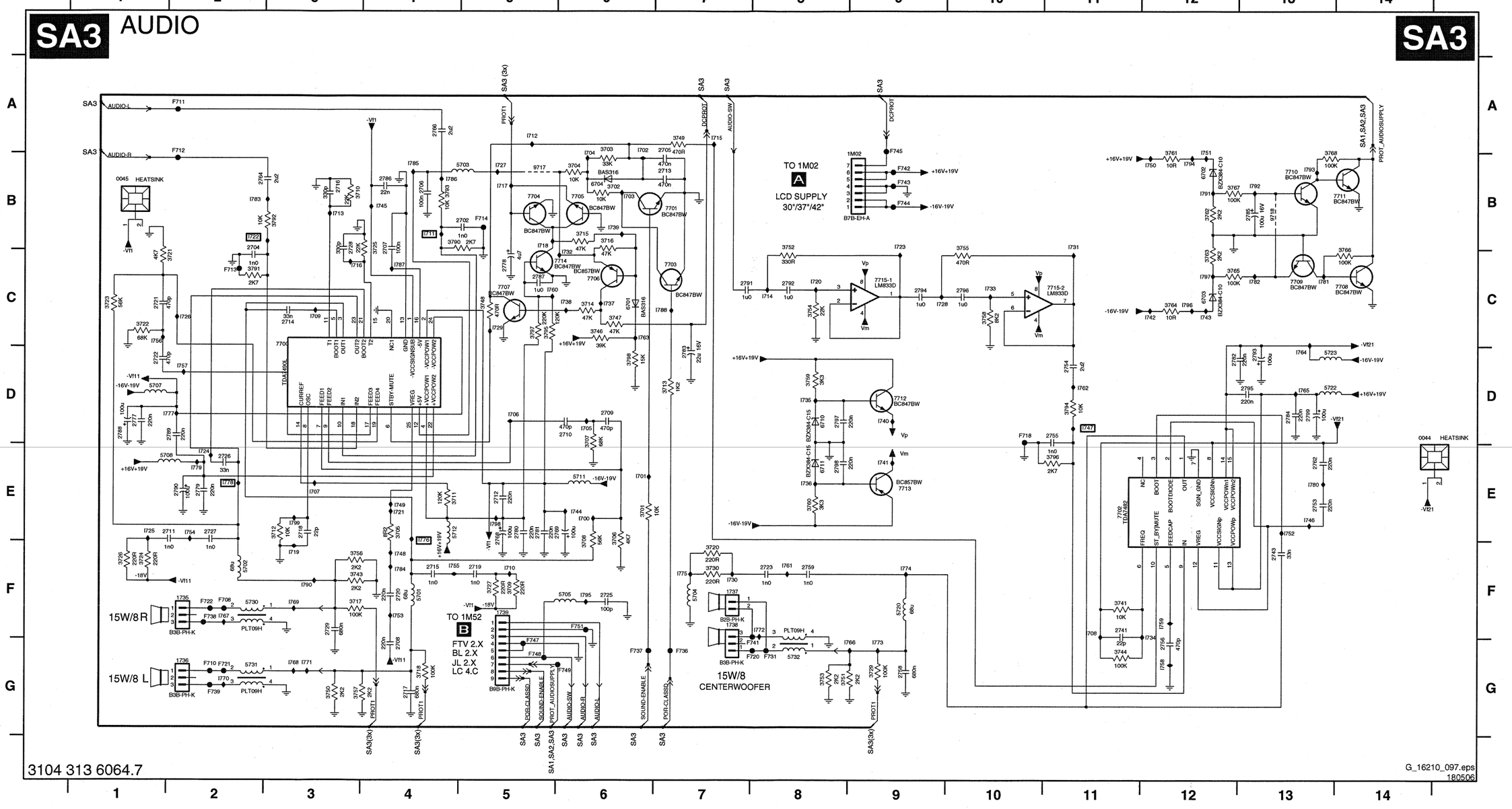
Standby & Audio Panel: Standby



1301 B1	3506 G11	7511 A8	I186 G6	
1305 D13	3507 F13	7512 A10	I187 D11	
1306 B3	3508 G13	7513 B7	I188 D9	
1307 H3	3509 A7	7514 A9	I189 H10	
1310 A13	3510 F12	7531 E10	I190 G1	
1311 A12	3511 C8	7532 D9	I191 G4	
2101 C1	3512 C9	7560 E12	I192 H9	
2102 F1	3513 D9	9017 E11	I197 C9	
2103 D2	3514 A7	9019 A7	I198 D7	
2105 D2	3515 A8	9020 C3	I199 D4	
2107 B4	3516 A9	9021 B3	I501 F6	
2108 B4	3517 A11	9022 B3	I502 F6	
2109 F7	3518 A7	9023 C2	I503 F6	
2110 G2	3519 A8	9024 D13	I504 G12	
2111 E2	3521 B7	9110 H9	I505 F12	
2112 E3	3522 A9	9111 D1	I506 F13	
2115 E6	3523 A9	9112 E9	I507 F13	
2118 D7	3524 A10	9120 B11	I508 A8	
2123 E4	3528 C11	9121 B12	I509 A9	
2124 H2	3529 C11	F100 D4	I510 A9	
2129 B6	3530 D13	F123 B3	I511 A10	
2131 C10	3531 C13	F124 B3	I512 H9	
2132 C10	3532 C12	F125 D12	I513 D1	
2140 G8	3533 D12	F126 E12	I514 E6	
2141 D7	3534 H9	F127 H3	I515 E9	
2143 D7	3535 H9	F128 H4	I516 D9	
2144 F2	3536 H10	F129 H4	I517 C13	
2145 D3	3537 H9	F130 H6	I518 B7	
2149 G7	3538 F8	F133 H7	I519 B8	
2150 H5	3539 H10	F134 H8	I520 A8	
2152 B4	3540 G12	I100 B4	I521 A8	
2153 F5	3541 G12	I101 B6	I522 A9	
2154 G9	3542 H12	I102 B6	I523 A9	
2159 E2	3543 D12	I103 C9		
2160 C9	3544 G12	I104 C9		
2162 D2	3560 E11	I105 B6		
2163 G1	3561 F12	I106 C10		
2503 D10	3562 E12	I107 C8		
2506 D5	3999 H7	I108 C8		
2507 C6	5102 E1	I109 C11		
2508 C6	5103 E6	I110 C2		
2509 G13	5104 C5	I111 C3		
2510 E7	5105 D5	I112 C9		
2511 B9	5106 D1	I113 C4		
2512 E9	5108 D4	I114 C6		
2513 E7	5110 B6	I115 C11		
2515 A10	5112 D6	I116 C10		
2518 A8	5115 B6	I117 C12		
2522 A9	5500 B5	I118 C5		
2523 A9	5501 B3	I119 C4		
2533 F11	5504 B3	I120 C6		
2534 E8	5505 B4	I121 C12		
2535 D9	5506 E8	I122 C1		
2536 D11	5507 B10	I123 C6		
2537 D13	5508 E9	I124 C5		
2538 H9	6103 C1	I125 D8		
2539 E8	6104 E2	I126 D9		
2540 H12	6105 D3	I127 B8		
2544 G12	6106 F2	I128 D7		
3100 G3	6107 E7	I129 D7		
3101 D2	6108 G2	I130 C3		
3102 E2	6109 A8	I131 C2		
3103 D2	6110 A8	I132 D4		
3104 D3	6113 C7	I133 D4		
3105 D2	6114 G1	I134 D2		
3106 E1	6115 D3	I135 D3		
3107 F1	6116 F4	I136 D2		
3108 D4	6117 C2	I137 E7		
3109 F1	6118 C2	I138 E7		
3110 G1	6119 C3	I139 E12		
3111 D1	6120 G7	I140 C1		
3112 G1	6121 G7	I141 D2		
3113 E7	6122 F7	I142 D2		
3114 F6	6125 B8	I143 D2		
3115 E6	6130 C9	I144 D2		
3116 A7	6132 C9	I145 D3		
3117 D3	6133 D8	I146 D4		
3118 A7	6134 C9	I147 E1		
3122 B6	6140 D6	I148 E10		
3123 F7	6142 F2	I149 E7		
3124 F7	6144 E3	I150 E12		
3125 F3	6147 D4	I151 E12		
3126 F3	6148 F8	I152 E12		
3127 F3	6149 F9	I153 E1		
3128 F6	6150 G4	I154 E4		
3132 D9	6151 G4	I155 E3		
3134 C10	6153 H5	I156 E4		
3135 C9	6156 G5	I157 F6		
3137 B8	6503 D9	I158 F7		
3138 E2	6504 B6	I159 F8		
3139 B8	6505 E7	I160 F7		
3140 C8	6508 H9	I161 F9		
3141 F9	6510 C13	I162 E1		
3142 G8	6511 A8	I163 F8		
3145 G2	6513 A8	I164 F7		
3146 F4	6514 B7	I165 G7		
3147 H2	6517 A7	I166 F3		
3148 E4	6531 F10	I167 F3		
3149 E4	6532 C11	I168 G9		
3150 D4	6540 F12	I169 F1		
3152 E3	6562 F12	I170 G7		
3153 C8	7100 F3	I171 F5		
3155 G4	7101 D3	I172 F2		
3156 G5	7102 C4	I173 F2		
3157 G5	7105 F4	I174 F2		
3158 G6	7131 B9	I175 F4		
3159 E8	7140 G10	I176 G7		
3160 D3	7150 G5	I177 F1		
3161 C9	7501 F6	I178 G13		
3171 C9	7503 D10	I179 G12		
3172 C10	7505 G12	I180 G4		
3175 G8	7506 C11	I181 G1		
3176 G9	7507 C12	I182 G12		
3502 C9	7508 H10	I183 G5		
3503 D11	7509 H12	I184 G5		
3504 D11	7510 F13	I185 F3		

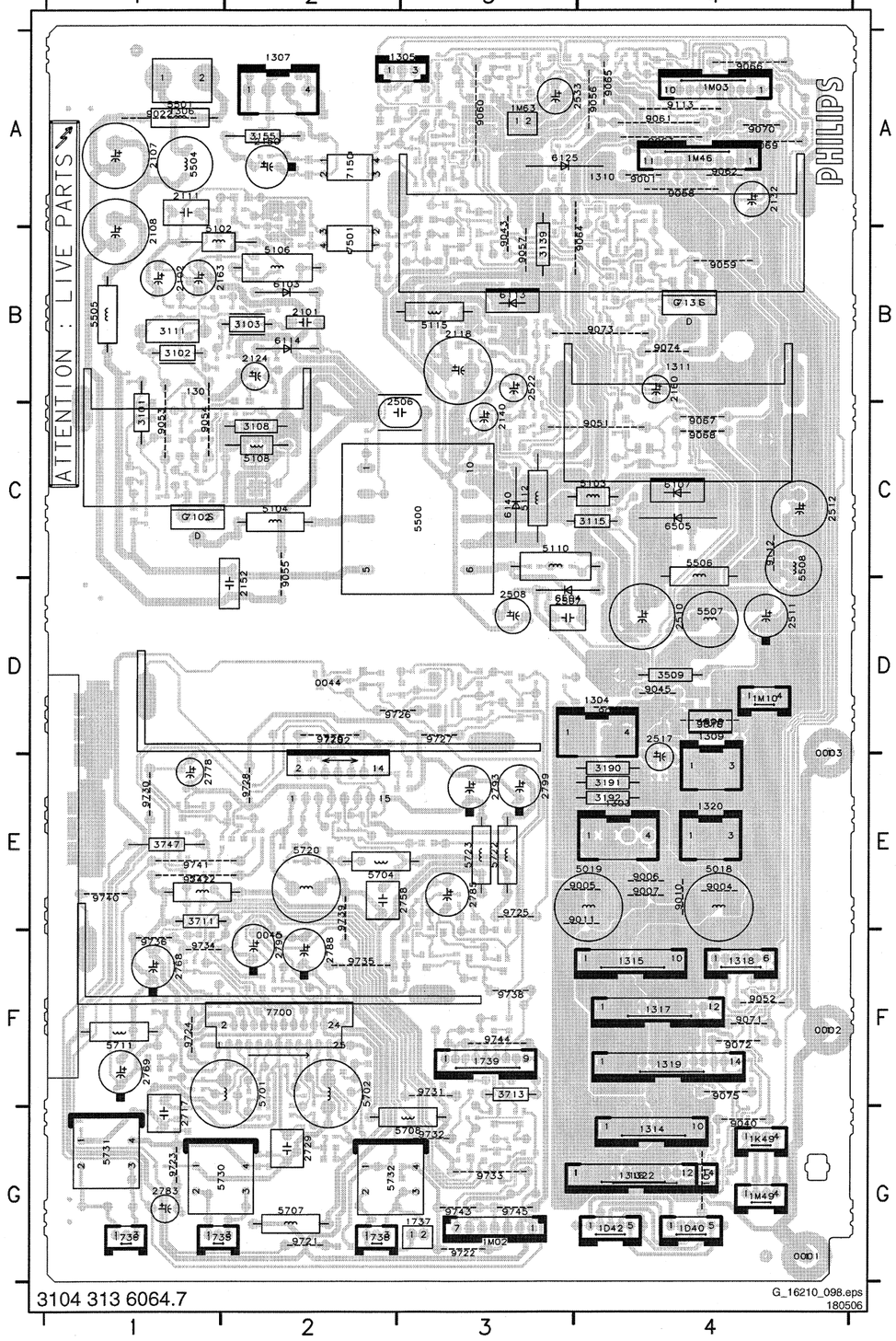
Standby & Audio Panel: Audio

0044 D14 0045 B1 1735 F2 1736 G2 1737 F7 1738 F7 1739 F5 1M02 A9 2702 B5 2704 C2
2705 A7 2706 B4 2707 B4 2708 G4 2709 D6 2710 D6 2711 E2 2712 E5 2713 B7 2714 C3
2715 F4 2716 B3 2717 G4 2718 E3 2719 F5 2720 F4 2721 C1 2722 D1 2723 F8 2725 F6
2726 E2 2727 E2 2728 B3 2729 F3 2741 F11 2743 F13 2753 E13 2754 D11 2755 D11 2756 G12
2758 G9 2759 F8 2762 E13 2764 B2 2766 A4 2768 E5 2769 E5 2777 D1 2778 C5 2779 E2
2780 E5 2781 E5 2782 D12 2783 D7 2784 D13 2785 B13 2786 B4 2787 C5 2788 D1 2789 D2
2790 E8 2791 C7 2792 C8 2793 D13 2794 C9 2795 D13 2796 C10 2797 D8 2798 E8 2799 D13
3701 E6 3702 B6 3703 A6 3704 B6 3705 E4 3706 E6 3707 D6 3708 F6 3709 F5 3710 B3
3711 E4 3712 E3 3713 D7 3714 C6 3715 B6 3716 B6 3717 F3 3718 G4 3720 F7 3721 C1
3722 C1 3723 C1 3724 F1 3725 B4 3726 F1 3727 F5 3729 G9 3730 F7 3741 F11 3743 F3
3744 G11 3746 C6 3747 C6 3748 C5 3749 A7 3750 G3 3751 G8 3752 B8 3753 G8 3754 C8
3755 B10 3756 F3 3757 G3 3758 C10 3759 D8 3760 E8 3761 B12 3762 B12 3763 C12 3764 C12
3765 C12 3766 C14 3767 B12 3768 B13 3790 B4 3791 C2 3792 B3 3793 B4 3794 D11 3795 C5
3796 E11 3797 C5 3798 D6 5701 F4 5702 F2 5703 B5 5704 F7 5705 F6 5707 D1 5708 E1
5711 E6 5712 E4 5720 F9 5722 D13 5723 D13 5730 F2 5731 G2 5732 G8 6701 C6 6702 B12
6703 C12 6704 B6 6705 B6 6706 B5 6711 E8 7700 C3 7701 B7 7702 E11 7703 C7 7704 B5 7705 B6
7706 C6 7707 C5 7708 C13 7709 C13 7710 B13 7711 B13 7712 D9 7713 E9 7714 C5 7715-1 C9
7715-2 C11 9717 B5 9718 B13 F708 F2 F710 G2 F711 A2 F712 B2 F713 C2 F714 B5 F718 D10
F720 G8 F721 G2 F722 F2 F731 G8 F736 G7 F737 G6 F738 F2 F739 G2 F741 G8 F742 B9
F743 B9 F744 B9 F745 A9 F747 G5 F748 G5 F749 G6 F751 F6 1700 E6 1701 E6 1702 A6
1703 B6 1704 A6 1705 D6 1706 D5 1707 E3 1708 F11 1709 C3 1710 F5 1711 B4 1712 A5
1713 B3 1714 C8 1715 A7 1716 C3 1717 B5 1718 B5 1719 F3 1720 C8 1721 E4 1722 B2
1723 B9 1724 E2 1725 E1 1726 C2 1727 B5 1728 C9 1729 C5 1730 F7 1731 B11 1732 C6
1733 C10 1734 F12 1735 D8 1736 E8 1737 C6 1738 C6 1739 B6 1740 D9 1741 E9 1742 C12
1743 C12 1744 E6 1745 B4 1746 E13 1747 D11 1748 F4 1749 E4 1750 B12 1751 A12 1752 E13
1753 F4 1754 E2 1755 F4 1756 C1 1757 D2 1758 G12 1759 F12 1760 C5 1761 F8 1762 D11
1763 C6 1764 D13 1765 D13 1766 G9 1767 F2 1768 G3 1769 F3 1770 G2 1771 G3 1772 F8
1773 G9 1774 F9 1775 F7 1776 E4 1777 D2 1778 E2 1779 F3 1780 E13 1781 C13 1782 C13
1783 B2 1784 F4 1785 B4 1786 B4 1787 C4 1788 C7 1790 F3 1791 B12 1792 B13 1793 B13
1794 B12 1795 F6 1796 C12 1797 C12 1798 E5 1799 E3



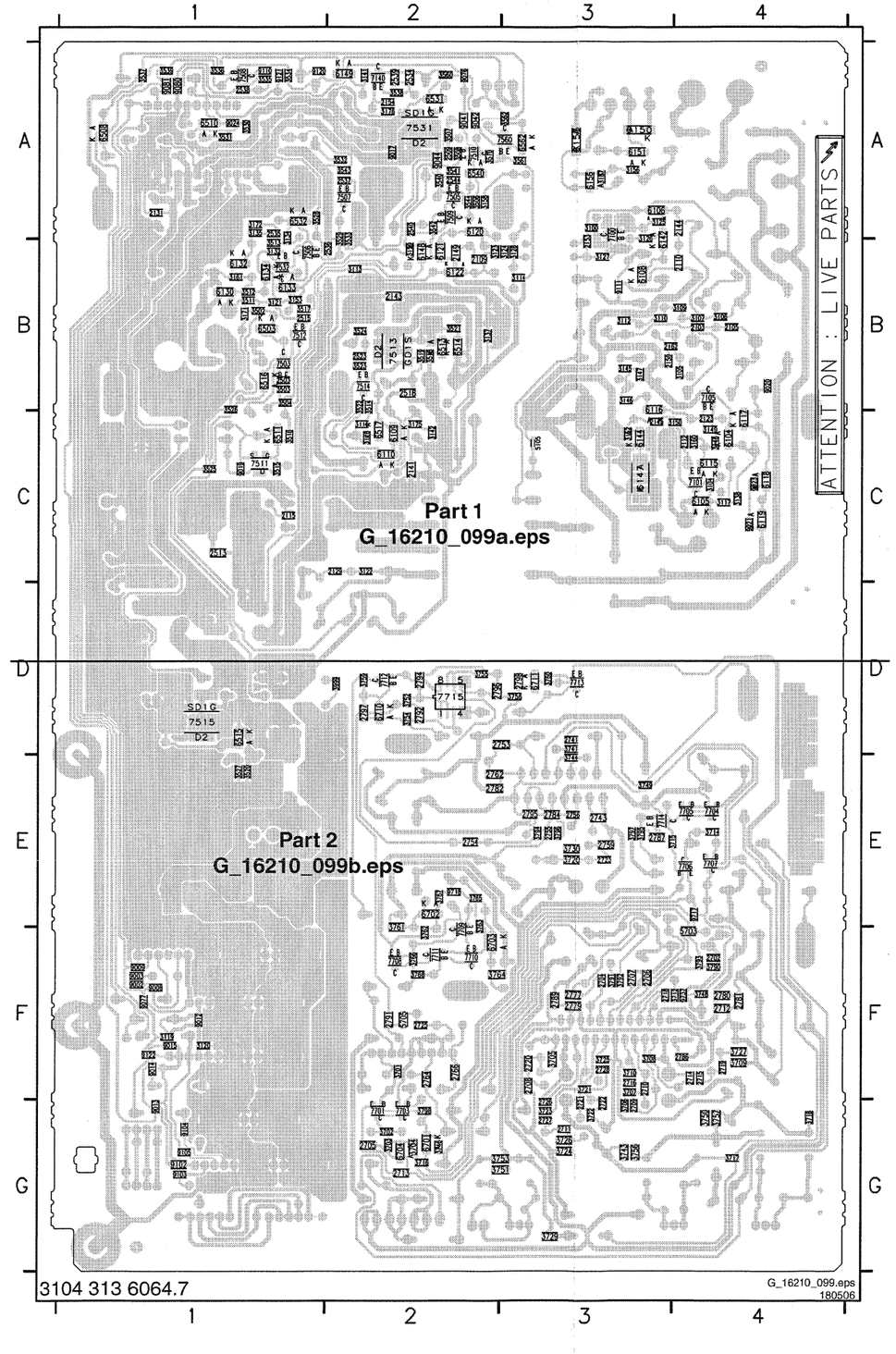
Layout Standby & Audio Panel (Top Side)

0001 G4 0002 F4 0003 D4 0044 D1 0045 E1 1301 C1 1303 E4 1304 D4 1305 A3 1306 A1 1307 D4 1309 D4 1310 A3 1311 B4 1313 A4 1314 G4 1315 G1 1316 G4 1317 F4 1318 F4 1319 F4 1320 E4 1322 G4 1735 G1 1736 G1 1737 G3 1738 G2 1739 F3 1M02 G3 1M03 A4 1M10 D4 1M46 A4 1M49 G4 1M63 A3 1K49 G4 1042 G4 1D40 G4 2101 B2 2102 B1 2107 A1 2108 A1 2110 A2 2111 A1 2117 B3 2118 B3 2122 B4 2123 B4 2124 B4 2130 B4 2132 A4 2140 C3 2150 A2 2152 D2 2160 B4 2163 B1 2506 B2 2507 D3 2508 D3 2510 D4 2511 D4 2512 C4 2517 D4 2522 B3 2533 A4 2717 F1 2729 G2 2768 F1 2783 G1 2785 E3 2788 F2 2790 E2 2793 E3 3101 C1 3102 B1 3103 B2 3108 B2 3111 B1 3115 C4 3139 B3 3155 A2 3190 E3 3191 E3 3192 E3 3509 D4 3711 F1 3747 E1 5102 C2 5104 C2 5106 B2 5108 C2 5192 B3 5501 A1 5504 A1 5505 B1 5506 C2 5507 D4 5508 C4 5702 F2 5704 E2 5711 F1 5720 E2 5723 E3 6103 B2 6104 B2 6107 C4 6113 B3 6114 B2 6125 A3 6140 C3 6504 D3 6505 C4 7102 C1 7131 B4 7150 A2 7501 B2 7700 F2 7702 D2 9001 A4 9004 E4 9005 E4 9006 E4 9007 E4 9010 E4 9011 E4 9016 D4 9018 D4 9022 A1 9040 G4 9043 B3 9045 D4 9051 C4 9052 F4 9053 B1 9054 B1 9055 C2 9056 A4 9057 A3 9058 A4 9059 B4 9060 A3 9061 A4 9062 A4 9063 A4 9064 A3 9065 A4 9066 A4 9067 C4 9068 C4 9069 A4 9070 A4 9071 F4 9072 F4 9073 B4 9074 B4 9075 F4 9101 G4 9112 C4 9113 A4 9721 G2 9722 G3 9723 G1 9724 F1 9725 E3 9726 D2 9727 D3 9728 E2 9729 D2 9730 E1 9731 F3 9732 G3 9733 G3 9734 F1 9735 F3 9736 F1 9738 F3 9739 F2 9740 E1 9741 E1 9742 E1 9743 G3 9744 F3 9745 G3

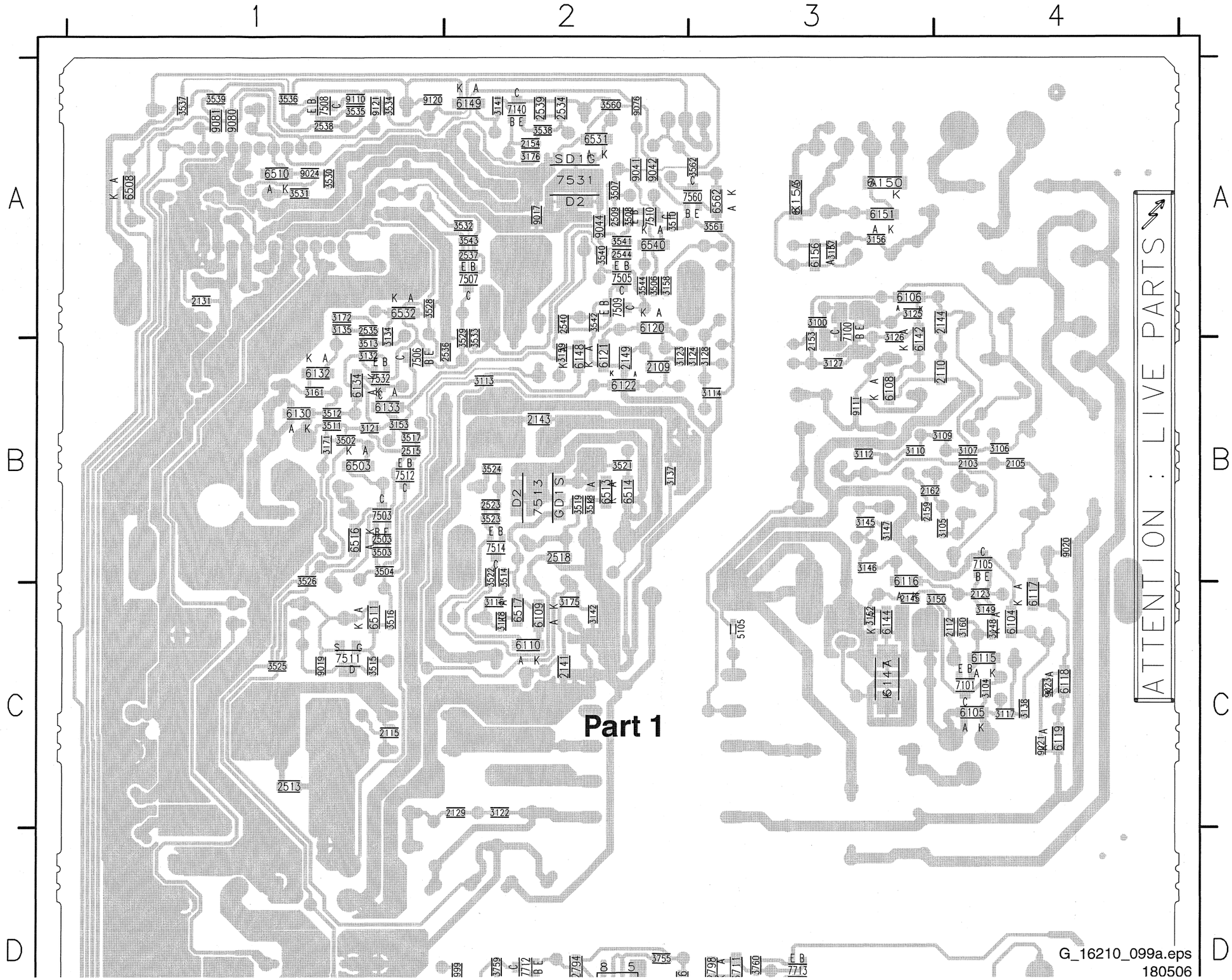


Layout Standby & Audio Panel (Overview Bottom Side)

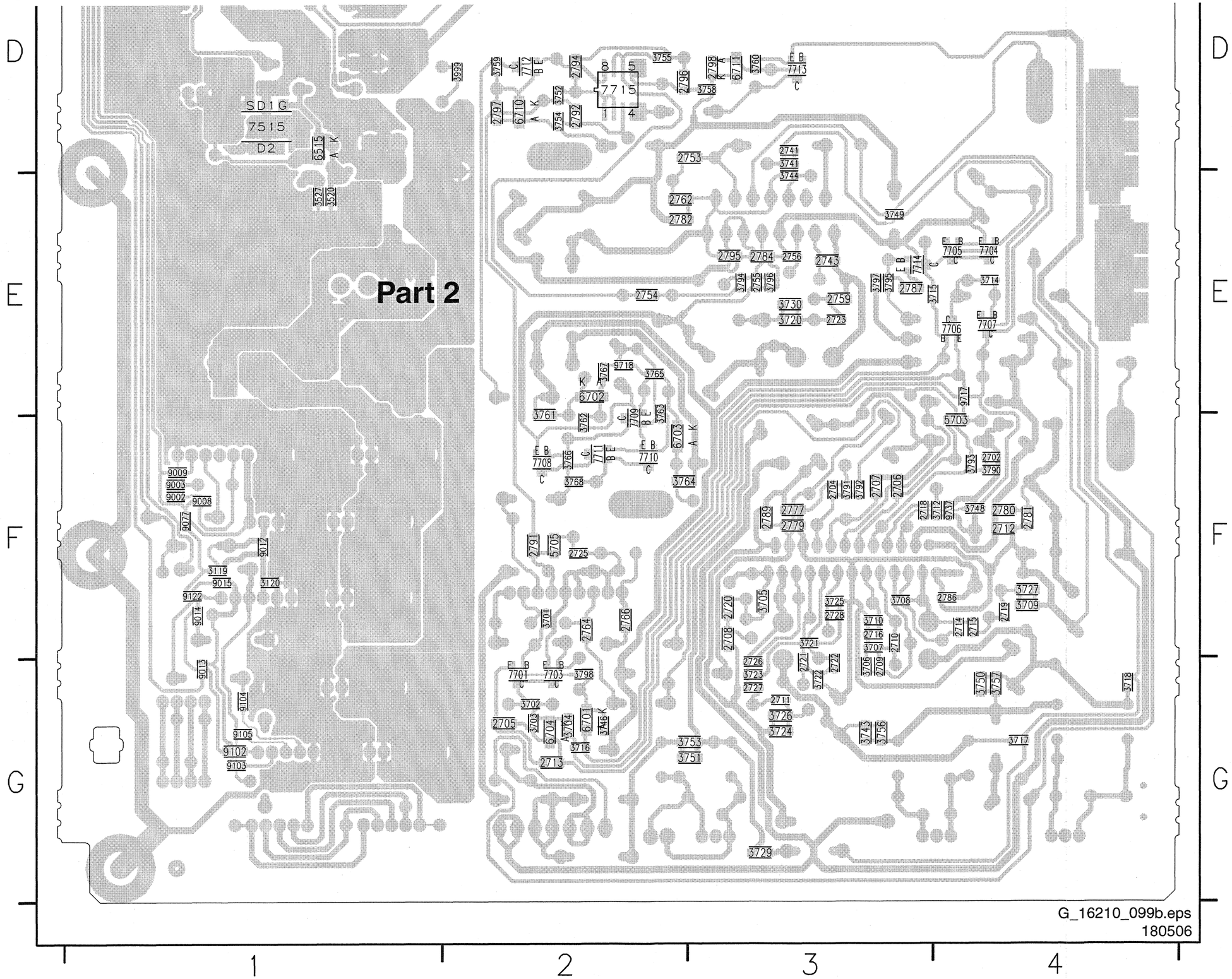
2103 B4 2105 B4 2109 B2 2110 B4 2112 C4 2115 C1 2123 C4 2129 C2 2131 A1 2141 C2 2143 B2 2144 A4 2145 C3 2149 B2 2153 B3 2154 A2 2159 B3 2162 B3 2503 B1 2509 A2 2513 C1 2515 B1 2518 B2 2523 B2 2534 A2 2535 A1 2536 B2 2537 A2 2538 A1 2539 A2 2540 A2 2544 A2 2702 F4 2704 F3 2705 G2 2706 F3 2707 F3 2708 F3 2709 F3 2710 F3 2711 G3 2712 F4 2713 G2 2714 F4 2715 F2 2716 F3 2718 F3 2719 F4 2720 F3 2721 G3 2722 G3 2723 E3 2725 F2 2726 G3 2727 G3 2728 F3 2741 D3 2743 E3 2753 D3 2754 E2 2755 E3 2756 E3 2759 E3 2762 E2 2764 F2 2766 F2 2777 F3 2779 F3 2780 F4 2781 F4 2782 E3 2784 E3 2786 F4 2787 E3 2789 F3 2791 F2 2792 D2 2794 D2 2795 E3 2796 D2 2797 D2 2798 D3 3100 A3 3104 C4 3105 B4 3106 B4 3107 B4 3109 B4 3110 B3 3112 B3 3113 B2 3114 B3 3116 C2 3117 C4 3118 C2 3119 F1 3120 F1 3121 B1 3122 C2 3123 B2 3124 B3 3125 A3 3126 A3 3127 B3 3128 B3 3132 B1 3134 A1 3135 A1 3137 B2 3138 C4 3140 C4 3141 A2 3142 C2 3145 B3 3146 B3 3147 B3 3148 C4 3149 C4 3150 C4 3152 C3 3153 B1 3156 A3 3157 A3 3158 A2 3159 B2 3160 C4 3161 B1 3171 B1 3172 A1 3175 C2 3176 A2 3502 B1 3503 B1 3504 B1 3506 A2 3507 A2 3508 A2 3510 A2 3511 B1 3512 B1 3513 B1 3514 B2 3515 C1 3516 C1 3517 B1 3518 B2 3519 B2 3520 E1 3521 B2 3522 B2 3523 B2 3524 C2 3525 C1 3526 B1 3527 E1 3528 A1 3529 B2 3530 A1 3531 A1 3532 A2 3533 B2 3534 A1 3535 A1 3536 A1 3537 A1 3538 A2 3539 A1 3540 A2 3541 A2 3542 A2 3543 A2 3544 A2 3560 A2 3561 A3 3562 A3 3701 F2 3702 G2 3703 G2 3704 G2 3705 F3 3706 G3 3707 F3 3708 F3 3709 F4 3710 F3 3712 F4 3714 E4 3715 E3 3716 G2 3717 G4 3718 G4 3720 E3 3721 F3 3722 G3 3723 G3 3724 G3 3725 F3 3726 G3 3727 F4 3729 G3 3730 E3 3741 D3 3743 G3 3744 E3 3746 G2 3748 F4 3749 E3 3750 G4 3751 G3 3752 D2 3753 G3 3754 D2 3755 D2 3756 G3 3757 G4 3758 D3 3759 D2 3760 D3 3761 F2 3762 F2 3763 E2 3764 F2 3765 E2 3766 F2 3767 E2 3768 F2 3790 F4 3791 F3 3792 F3 3793 F4 3794 E3 3795 E3 3796 E3 3797 E3 3798 G2 3999 D2 5105 C3 5703 F4 5705 F2 6104 C4 6105 C4 6106 A3 6108 B3 6109 C2 6110 C2 6115 C4 6116 B3 6117 B4 6118 C4 6119 C4 6120 A2 6121 B2 6122 B2 6130 B1 6132 B1 6133 B1 6134 B1 6142 B3 6144 C3 6147 C3



Layout Standby & Audio Panel (Part 1 Bottom Side)

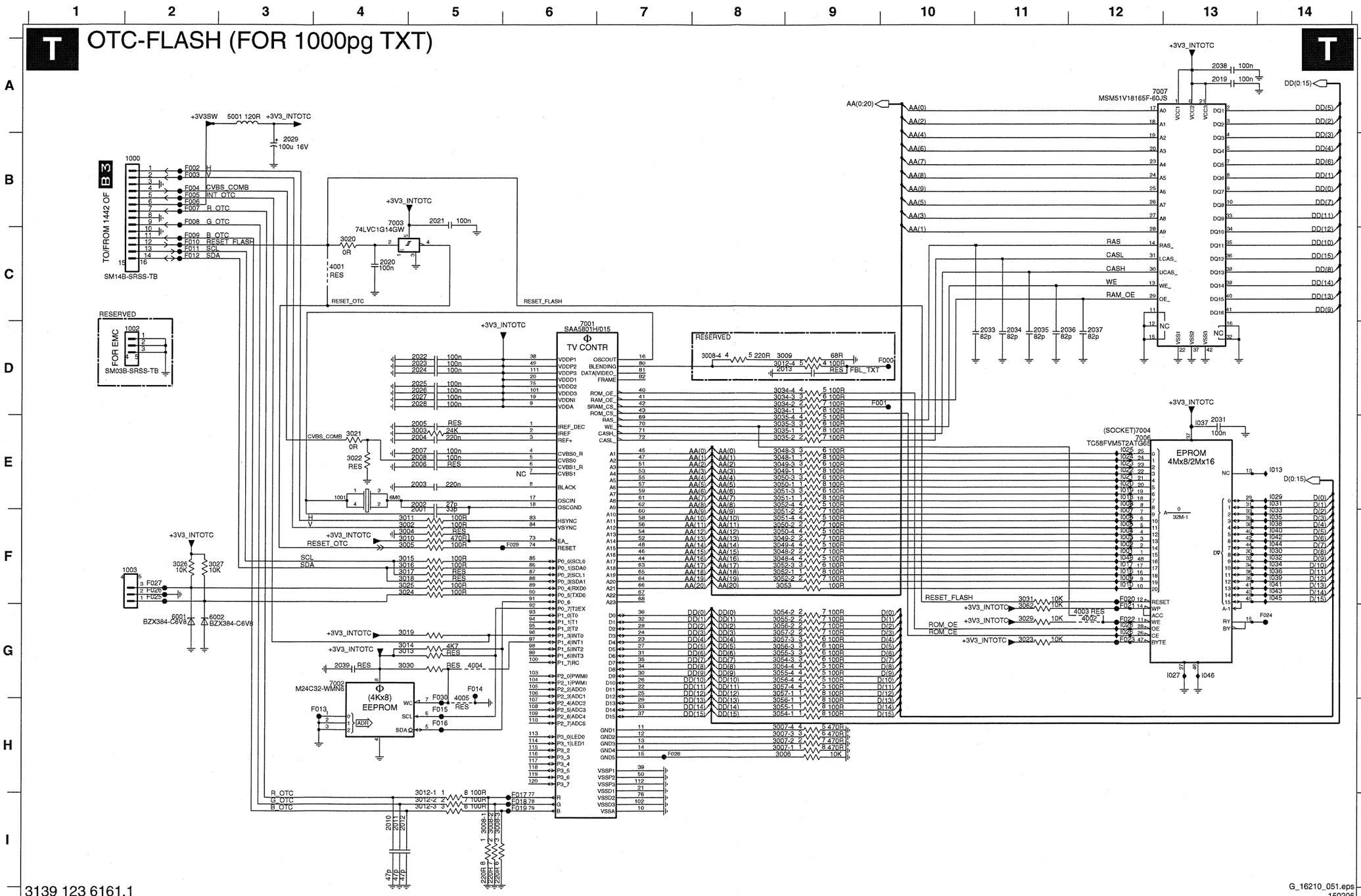


Layout Standby & Audio Panel (Part 2 Bottom Side)



OTC Flash (For 1000pg TXT)

OTC-FLASH (FOR 1000pg TXT)



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1002 D2	3056-3 G9
1003 F2	3056-4 G9
2001 E5	3057-1 G9
2002 E5	3057-2 G9
2003 E5	3057-3 G9
2004 E5	3057-4 G9
2005 E5	3062 G11
2006 E5	4001 C4
2007 E5	4002 G12
2008 E5	4003 G12
2010 I4	4004 G5
2011 I4	4005 H5
2012 I4	5001 A3
2013 D9	6001 G2
2019 A13	6002 G3
2020 C4	7001 D6
2021 B5	7002 G4
2022 D5	7003 B4
2023 D5	7004 E12
2024 D5	7006 E12
2025 D5	7007 A13
2026 D5	F000 D10
2027 D5	F001 D9
2028 D5	F002 B2
2029 B3	F003 B2
2031 E13	F004 B2
2033 D11	F005 B2
2034 D11	F006 B2
2035 D11	F007 B2
2036 D12	F008 B2
2037 D12	F009 C2
2038 A13	F010 C2
2039 G4	F011 C2
3002 F5	F012 C2
3003 E5	F013 H4
3004 F5	F014 G5
3005 F5	F015 H5
3006 H9	F016 H5
3007-1 H9	F017 I6
3007-2 H9	F018 I6
3007-3 H9	F019 I6
3007-4 H9	F020 F12
3008-1 I5	F021 G12
3008-2 I5	F022 G12
3008-3 I5	F023 G12
3008-4 D8	F024 G14
3009 D9	F025 F2
3010 F5	F026 F2
3011 F5	F027 F2
3012-1 H5	F028 H7
3012-2 I5	F029 F6
3012-3 I5	F030 H5
3012-4 D9	I001 F12
3013 G5	I002 F12
3014 G5	I003 F12
3015 F5	I004 F12
3016 F5	I005 F12
3017 F5	I006 F12
3018 F5	I007 F12
3019 G5	I008 E12
3020 C4	I009 F12
3021 E4	I010 F12
3022 E4	I013 E14
3023 G11	I016 F12
3024 F5	I017 F12
3025 F5	I018 E12
3026 F2	I019 E12
3027 F2	I020 E12
3029 G11	I021 E12
3030 G5	I022 E12
3031 F11	I023 E12
3034-1 D9	I024 E12
3034-2 D9	I025 E12
3034-3 D9	I026 G12
3034-4 D9	I027 G13
3035-1 E9	I028 G12
3035-2 E9	I029 E14
3035-3 E9	I030 F14
3035-4 E9	I031 E14
3048-1 E9	I032 F14
3048-2 F9	I033 F14
3048-3 E9	I034 F14
3048-4 F9	I035 F14
3049-1 E9	I036 F14
3049-2 F9	I037 E13
3049-3 E9	I038 F14
3049-4 F9	I039 F14
3050-1 E9	I040 F14
3050-2 F9	I041 F14
3050-3 E9	I042 F14
3050-4 F9	I043 F14
3051-1 E9	I044 F14
3051-2 F9	I045 F14
3051-3 E9	I046 G13
3051-4 F9	I048 F12
3052-1 F9	
3052-2 F9	
3052-3 F9	
3052-4 E9	
3053 F9	
3054-1 H9	
3054-2 G9	
3054-3 G9	
3054-4 G9	
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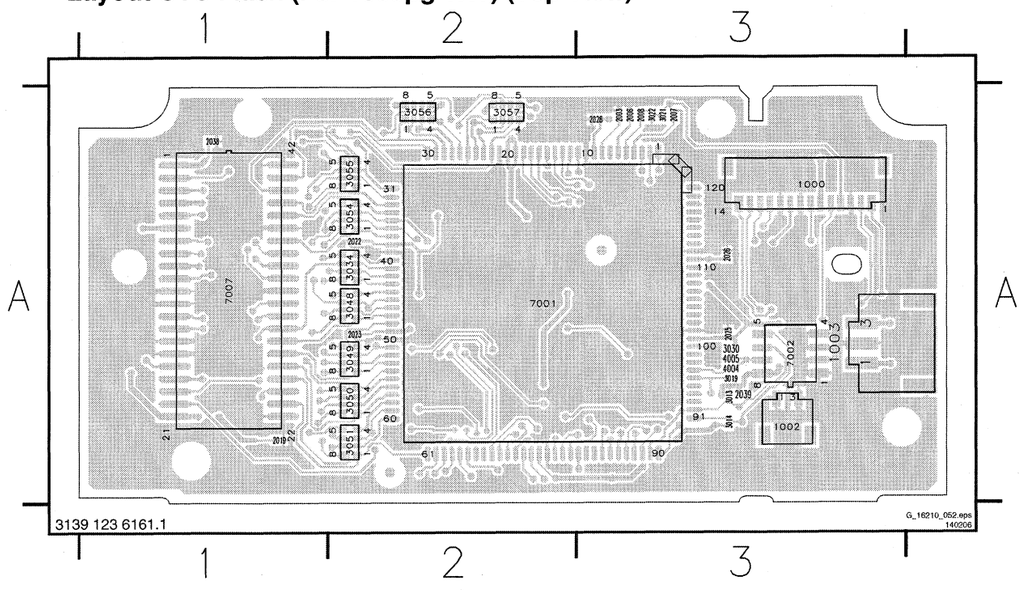
3055-2 G9	
3055-3 G9	
3055-4 G9	

Layout OTC Flash (For 1000pg TXT) (Top View)



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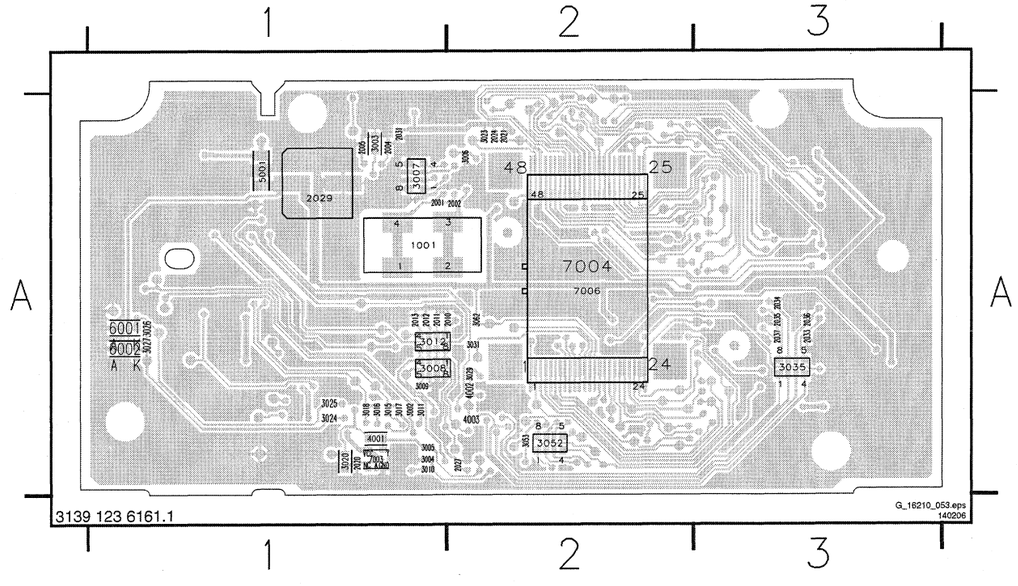
1003 A3
2003 A3
2006 A3
2007 A3
2008 A3
2019 A1
2022 A2
2023 A2
2025 A3
2026 A3
2028 A3
2038 A1
2039 A3
3013 A3
3014 A3
3019 A3
3021 A3
3022 A3
3030 A3
3034 A2
3048 A2
3049 A2
3050 A2
3051 A2
3054 A2
3055 A2
3056 A2
3057 A2
4004 A3
4005 A3
7001 A2
7002 A3
7007 A1

Layout OTC Flash (For 1000pg TXT) (Bottom View)



1001 A1
2001 A1
2002 A2
2004 A1
2005 A1
2010 A2
2011 A1
2012 A1
2013 A1
2020 A1
2021 A2
2024 A2
2027 A2
2029 A1
2031 A1
2033 A3
2034 A3
2035 A3
2036 A3
2037 A3
3002 A1
3003 A1
3004 A1
3005 A1
3006 A2
3007 A1
3008 A1
3009 A1
3010 A1
3011 A1
3012 A1
3015 A1
3016 A1
3017 A1
3018 A1
3020 A1
3023 A2
3024 A1
3025 A1
3026 A1
3027 A1
3029 A2
3031 A2
3035 A3
3052 A2
3053 A2
3062 A2
4001 A1
4002 A2
4003 A2
5001 A1
6001 A1
6002 A1
7003 A1
7004 A2
7006 A2

Personal Notes:

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Personal Notes:

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131004

8. Alignments

Index of this chapter:

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

General: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the Cursor Up, Down, Left or Right keys of the remote control transmitter.

8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:
Mains voltage and frequency: 110-240 V / 50/60 Hz (26 and 32"), 220-240 V / 50/60 Hz (37").
Allow the set to warm up for approximately 10 minutes.
Test probe: Ri > 10 MΩ; Ci < 2.5 pF.

8.2 Hardware Alignments

There are no hardware alignments foreseen for the 26" and 32" models. In the 37" and 42" models it can be necessary to adjust the Backlight Voltage.

8.2.1 Backlight Voltage Alignment

Switch "ON" the set and measure the voltage between pin 1 of connector 1304 and pin 1 of connector 1309 (ground). Align R3026 until this voltage is 24 V_{DC} +/- 0.1 V (for LPL displays).

Caution: This voltage must be aligned very precisely: when it is too high (> 27 V), it can destroy the inverters. When it is too low (< 23 V) the backlight will not start up.

8.3 Software Alignments

With the software alignments of the Service Alignment Mode (SAM) the geometry, white tone and tuner (IF) can be aligned. To store the data: Use the RC button Menu to switch to the main menu and next, switch to 'Stand-by' mode.

Note: For models with "Pixel Plus", the "Black Offset" (black level offset) should not be changed in SAM. These offset values of RGB should be set to "0", and should **NOT** be adjusted. Any adjustment of these values will affect the low light white balance.

8.3.1 SAM Menu

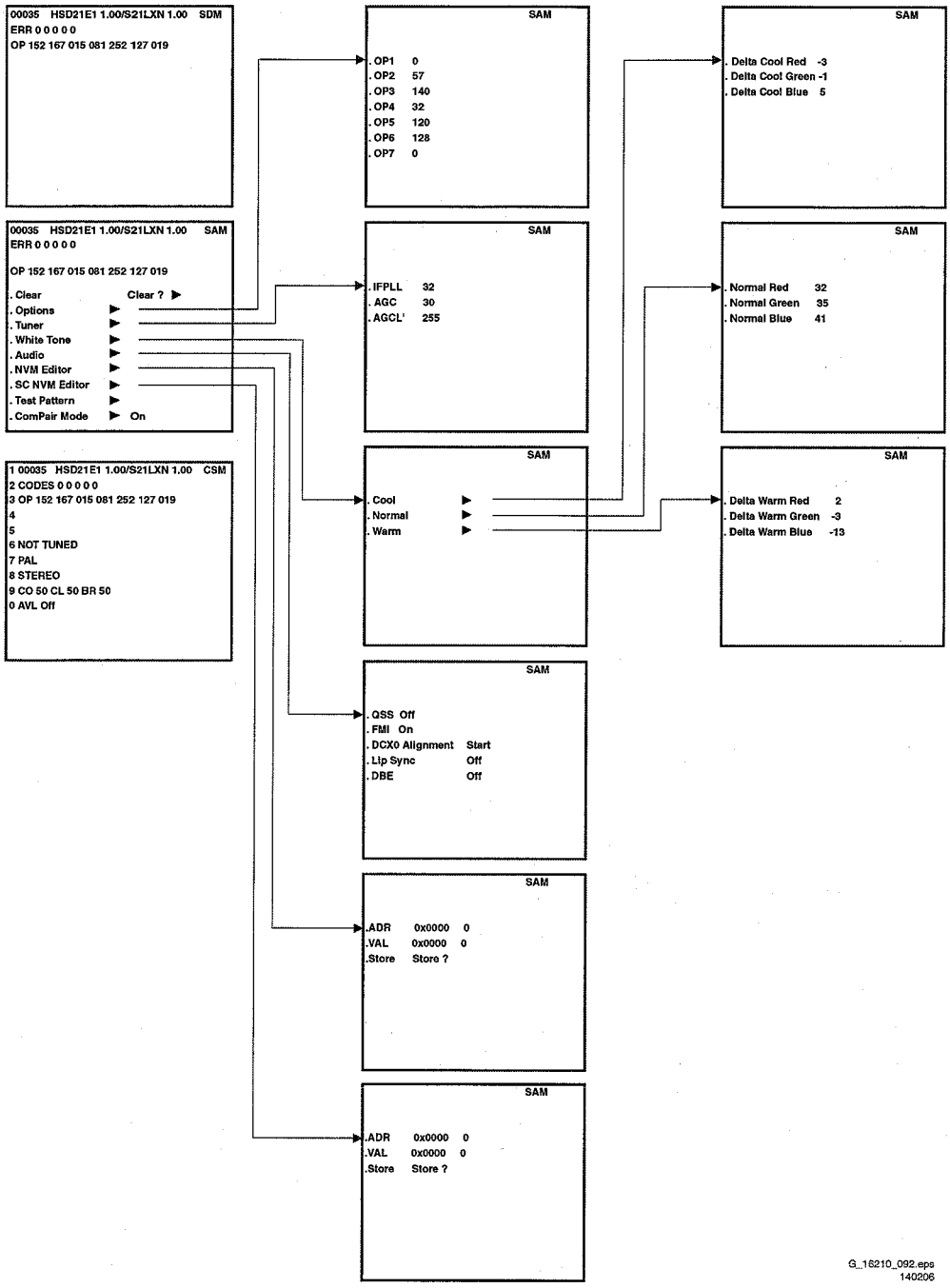


Figure 8-1 Overview SAM menu (the values are indicative).

8.3.2 Tuner Adjustment

AGC (RF AGC Take Over Point)

- Activate the SAM menu.
- Go to the sub-menu Tuner.
- Select the AGC sub-menu.
- Adjust the AGC value to AGC = 27.
- Adjust the AGC L' value to AGC L' = 27 (Europe only).
- Adjust the IFPLL value to IFPLL = 32 (Europe only).
- Switch the set to standby to store the data.

8.3.3 DCXO (Digital Xtal Oscillator) Alignment (for NICAM sets only)

- Input a Colour bar signal with a colour subcarrier frequency of 4.43 MHz on SCART1 or SCART2.
- Select as a signal source EXT1 or AV1.
- Go to the SAM menu and select Audio.
- Activate DCXO Alignment and wait until this process has finished (DONE).
- Check if the NICAM audio reception is OK, if not: repeat the procedure.
- Switch the set to standby to store the data.

8.3.4 ADC Gain and Grey Scale Alignment

The table below shows a number of NVM settings used for each model of TV set. Be sure to use the correct editor in the SAM menu (NVM Editor or SC NVM Editor), because the first one is used for the Hercules NVM, and the second one for the SCALER (SC) part of the TV set. For further important NVM settings, see also the other NVM tables elsewhere in this manual.

Caution:

- **Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- **Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TV set!**
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.

Table 8-1 ADC gain and grey scale alignment

SDTV ADC Gain settings: Use the NVM Editor in SAM to set these values in the Hercules NVM		
Setting	**Hercules NVM Address (decimal value)**	**26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10**
NVM_ADC_GAIN_R	006	135
NVM_ADC_GAIN_G	007	185
NVM_ADC_GAIN_B	008	145

SDTV Greyscale settings: Use the SC NVM Editor in SAM to set these values in the Scaler NVM		
Setting	**Scaler NVM Address (decimal value)**	**26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10**
ADC_RED_OFFSET2	338	070
ADC_GRN_OFFSET2	339	070
ADC_BLU_OFFSET2	340	070
ADC_RED_GAIN	341	150
ADC_GRN_GAIN	343	150
ADC_BLU_GAIN	345	150
PC Greyscale settings		
Setting	**Scaler NVM Address (decimal value)**	**26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10**
ADC_RED_OFFSET2	325	070
ADC_GRN_OFFSET2	326	070
ADC_BLU_OFFSET2	327	070
ADC_RED_GAIN	328	240
ADC_GRN_GAIN	330	240
ADC_BLU_GAIN	332	240
HD Greyscale settings		
Setting	**Scaler NVM Address (decimal value)**	**26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10**
ADC_RED_OFFSET2	351	064
ADC_GRN_OFFSET2	352	075
ADC_BLU_OFFSET2	353	064
ADC_RED_GAIN	354	180
ADC_GRN_GAIN	356	180
ADC_BLU_GAIN	358	180

8.3.5 Panel Size Settings

The table below shows the NVM settings for panel selection, based on panel size and manufacturer. Use the SC NVM editor in the SAM menu to change the panel code at decimal address 320.

Caution:

- **Make sure to choose the right panel, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.

Table 8-2 Panel size settings

Option table for panel size settings		
Manufacturer	**Size (inch)**	**Panel code (hex)**
LPL	26	1A
LPL	32	0F
LPL	37	0E
LPL	42	22
Sharp	26	11
Sharp	32	10
AUO	26	08
AUO	32	09
AUO	37	0A
QDI	26	20
QDI	32	21

8.3.6 Sound

- For NICAM sets: see paragraph 8.3.3.
- For other sets: No adjustments needed for sound.

8.3.7 Options

Options OP1...OP7 in the SAM menu can be used for quickly restoring 64 features or settings of the HERCULES part of the TV set to their original default factory values (8 groups of 8 features/settings each). When the decimal value of one option byte OP1...OP7 is changed (see the first table below) then a group of 8 bits, representing 8 HERCULES options or features, is changed as well (see the second table below for a detailed description of the features or settings that are changed).
The second table shows which option byte (OP1...OP7) represents which group of 8 option bits. Each bit (0...7) switches a particular HERCULES feature or setting ON or OFF, depending on its value (1 or 0).
It is also possible to change the features or settings mentioned in the second table directly at bit level, by means of the NVM Editor in the SAM menu. In the NVM Editor, first the correct NVM address (ADR) has to be entered, then the correct value (VAL, 1 or 0) for each bit (see second table), and finally the settings have to be stored (STORE). For quickly restoring the HERCULES part of the TV set to its original factory settings, however, it is more convenient to simply enter the default factory settings OP1...OP7 that are given in the first table below. How to do this, is described in the next paragraph.

How to Change an Option Byte
As has been explained above, an Option byte (OP) represents a number of different HERCULES options. Changing these bytes directly makes it possible to set all HERCULES options very fast. All options are controlled via seven option bytes. Select the option byte (OP1.. OP7) with the Menu Up/ Down keys, and enter the new (decimal) value. For the correct Factory Default settings, see the first table below. For more detailed information, see the second table.

Leaving the Option submenu saves the changes in the Option Byte settings. Some changes will only take effect after the set has been switched "off" and "on" with the AC power switch (cold start).

Table 8-3 Option codes OP1...OP7

Option table for quickly restoring the HERCULES to its Factory Default settings			
Model number	**26PF5321/10/12 32PF5321/10/12**	**37PF5321/10/12 42PF5421/10**	**26PF7321/12 32PF7321/12 37PF7321/10/12**
OP1	152	152	152
OP2	167	167	167
OP3	47	47	111
OP4	81	113	113
OP5	252	252	252
OP6	27	27	27
OP7	19	19	19
Options (can be changed only via the SAM menu)	**Total decimal value for each option per model number**		

How to Change Options at Bit Level
If you wish to know which features or settings of the HERCULES are changed via OP1...OP7, or if you want to change each option or feature bit by bit, use the more detailed table below.
Note: the table below contains only part of the NVM settings that can be changed. A second range of settings and features can be found in Chapter 5 of this manual, in table **NVM Default values.** The settings mentioned there can only be changed via the NVM editor. For further settings, see also the table "ADC Gain and Grey scale alignment" elsewhere in this manual.

Table 8-4 Option codes in detail, at bit level

Option byte & bit table for restoring the TV set to its original Factory Default settings via the NVM Editor in the SAM menu				
	Model number	26PF5321/10/12 32PF5321/10/12	37PF5321/10/12 42F5421/10	26PF7321/12 32PF7321/12 37PF7321/10/12
OP1	**Description of feature/option to be switched ON or OFF**			
bit 7 (msb)	OP_PHILIPS_TUNER	1	1	1
bit 6	OP_FM_RADIO	0	0	0
bit 5	OP_LNA	0	0	0
bit 4	OP_ATS // for EU	1	1	1
bit 3	OP_ACI	1	1	1
bit 2	OP_UK_PNP	0	0	0
bit 1	OP_VIRGIN_MODE	0	0	0
bit 0 (lsb)	OP_CHINA	0	0	0
	Total DEC Value	152	152	152
	Total HEX Value	98	98	98
OP2				
bit 7 (msb)	OP_HDMI-2X	1	1	1
bit 6	OP_IBEX (for DVB)	0	0	0
bit 5	OP_CHANNEL_NAMING	1	1	1
bit 4	OP_LTI (Lum Transcient Improvmt)	0	0	0
bit 3	OP_TILT	0	0	0
bit 2	OP_FINE_TUNING	1	1	1
bit 1	OP_BACKLIGHT_DIMMING (for Malibu only)	1	1	1
bit 0 (lsb)	OP_HUE	1	1	1
	Total DEC Value	167	167	167
	Total HEX Value	A7	A7	A7
OP3				
bit 7 (msb)	OP_EW_FUNCTION	0	0	0
bit 6	OP_PIXEL_PLUS (for Option A)	0	0	1
bit 5	OP_SCL_RECOVERY	1	1	1
bit 4	OP_SPLITTER // temp	0	0	0
bit 3	OP_VIRTUAL_DOLBY	1	1	1
bit 2	OP_WIDE_SCREEN	1	1	1
bit 1	OP_WSSB	1	1	1
bit 0 (lsb)	OP_OP_ME5 // OP_ME5 - 5/6 local buttons implementation	1	1	1
	Total DEC Value	47	47	111
	Total HEX Value	2F	2F	6F
OP4				
bit 7 (msb)	OP_LIP_SYNC (for PDP only)	0	0	0
bit 6	OP_HD	1	1	1
bit 5	OP_1000P_TEXT	0	1	1
bit 4	OP_DELTA_VOLUME	1	1	1
bit 3	OP_TAIWAN_KOREA	0	0	0
bit 2	OP_VOLUME_LIMITER	0	0	0
bit 1	OP_STEREO_DBX	0	0	0
bit 0 (lsb)	OP_STEREO_NICAM_2CS	1	1	1
	Total DEC Value	81	113	113
	Total HEX Value	51	71	71
OP5				
bit 7 (msb)	OP_AV1	1	1	1
bit 6	OP_AV2	1	1	1
bit 5	OP_AV3	1	1	1
bit 4	OP_CVI	1	1	1
bit 3	OP_SVHS2	1	1	1
bit 2	OP_SVHS3	1	1	1
bit 1	OP_HOTEL_MODE	0	0	0
bit 0 (lsb)	OP_SIMPLY_FACTORY=OP_BTSC_AVSTEREO	0	0	0
	Total DEC Value	252	252	252
	Total HEX Value	FC	FC	FC
OP6				
bit 7 (msb)	OP_PERSONAL_ZAPPING	0	0	0
bit 6	OP_SMART_SURF	0	0	0
bit 5	OP_FMTRAP	0	0	0
bit 4	OP_COMBFILTER	1	1	1
bit 3	OP_ACTIVE_CONTROL	1	1	1
bit 2	OP_VIDEO_TEXT	0	0	0
bit 1	OP_LIGHT_SENSOR	1	1	1
bit 0 (lsb)	OP_TWIN_TEXT	1	1	1
	Total DEC Value	27	27	27
	Total HEX Value	1B	1B	1B
OP7				
bit 7 (msb)	OP_TIME_WIN1	0	0	0
bit 6	OP_DVB_USB = OP_MALAY	0	0	0
bit 5	OP_AMBILIGHT	0	0	0
bit 4	OP_COLUMBUS	1	1	1
bit 3	OP_DUMMY6	0	0	0
bit 2	OP_DUMMY7	0	0	0
bit 1	OP_WEST_EU	1	1	1
bit 0 (lsb)	OP_MULTI_STANDARD_EUR	1	1	1
	Total DEC Value	19	19	19
	Total HEX Value	13	13	13

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

9.1 Introduction

The LC4.31 chassis is a global chassis for the year 2006. It is the successor of the LC4.3 chassis and covers screen sizes of 26, 32, 37 and 42 inch (in 16:9 ratio). It has three stylings, called ME5FL, ME6 and Entry. There are two different picture qualities available, depending on the model: Pixel Plus in the xxPF7321/10 and /12 models, and Digital Crystal Clear in the xxPF5321/10 and /12 models, and in the 42PF5421/10 model. The block diagram below (Figure "Block diagram") shows the Pixel Plus architecture; the architectures of the Digital Crystal Clear models are shown in the block diagram on the next Figure "Block diagram of the internal building blocks".

The architecture consists of a TV and Scaler panel, I/O panel, Side I/O and Local Keyboard panel and Power Supply panel. The functions for video/audio processing, microprocessor (P), and CC/Teletext (TXT) decoder are all combined in one IC (TDA150xx, item 7217), the so-called third generation Ultimate One Chip (UOC-III) or "Hercules". This chip has the following features:

- Control, small signal, mono/stereo, and extensive Audio/ Video switching in one IC.
- Upgrade with digital sound & video processing.
- Alignment free IF, including SECAM-L/L1 and AM.
- FM sound 4.5/5.5/6.0/6.5, no traps/bandpass filters.
- Full multi-standard colour decoder.
- One Xtal reference for all functions (microprocessor, RCP, TXT/CC, RDS, colour decoder, and stereo sound processor).

9.2 Block Diagram

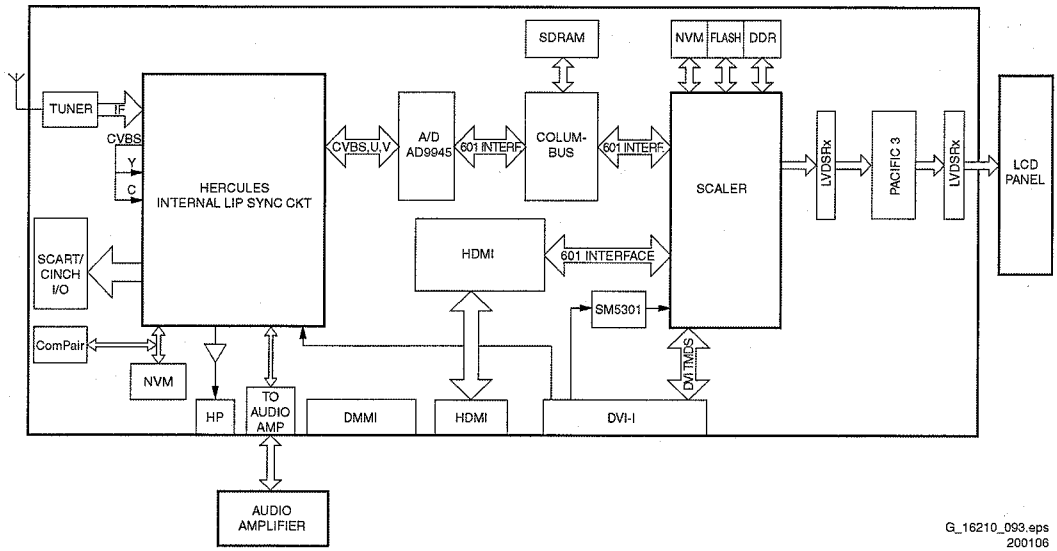


Figure 9-1 Block Diagram

The function is basically the same as in the LC4.3E AA, with the following differences:

- the model range only contains models with Digital Crystal Clear or Pixel Plus;
- Pixel Plus is performed by a new IC, called Pacific 3.

The Pacific 3 IC, which is present in Pixel Plus models, provides additional sharpening, and contrast and colour enhancements to the picture. For a general outline, see the table and the block diagrams below, in which the architectures of the two different models are given, together with their electronic building blocks.

Table 9-1 Models and picture quality

Model	Picture quality
xxPF5321/10/12 & 42PF5421/10	Digital Crystal Clear
xxPF7321/10/12	Pixel Plus

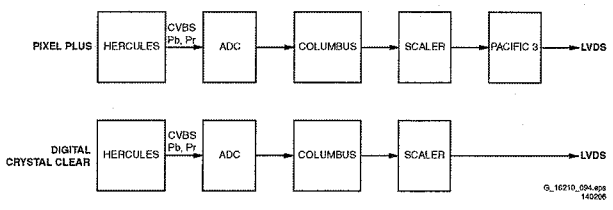


Figure 9-2 Block diagram of the internal building blocks

For more information, please refer to manual LC4.3E AA, 12NC 3122 785 15270

9.3 Power Supply Unit

9.3.1 Description

The power supply is a bought module, that consists of the following parts:

- the AC mains input with fuse;
- a separate stand-by supply;

- the mains harmonic circuit;
- the mains rectifier.

The power supply provides the following output voltages:
- 3.3V for the UOCIII, Scaler and other digital circuits;
- unregulated 12V, which is converted to regulated 5V, 8V, and 12V;
- a so-called bolt-on supply, which provides 12V for bolt-on devices (not covered in this manual).

9.3.2 States and Sub-states of the Power Supply

The power supply has three different states. Each of these states has a couple of sub-states:

1. POWER OFF:
   a. PASSIVE OFF:
      The set is switched off completely, the mains cable is disconnected. When the mains is re-connected, the set switches to the last STAND-BY status.
   b. ACTIVE OFF:
      The set is connected to the mains, and consuming a minimum amount of power. This sub-state is similar to NORMAL STAND-BY, but all LED indicators are off. Switch to the ON or STAND-BY mode with the POWER ON/OFF button (in the NAFTA region also with the STAND-BY KEY of the RC).
2. STAND-BY:
   a. NORMAL STAND-BY:
      Only Hercules and NVM are connected to the power (+3V3STBY), other circuits are disconnected. The LED lights red. The signal from a control port can switch the set OFF or ON.
   b. SEMI STAND-BY:
      Only on DVB sets. In this state the LED lights red. +3V3STBY, +12VUNREG, and +12V iBOZ remain ON for a certain time. After that time only +3V3STBY stays ON, only powering Hercules and NVM, so the set is in NORMAL STAND-BY.
3. POWER ON:
   This is the normal operating mode. All power supply lines are available. All circuits are active. From this mode the set can switch to NORMAL STAND-BY, SEMI STAND-BY, OFF, or PROTECTION.

9.4 Abbreviation List

0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format
1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2CS	2 Carrier Sound (or 2 Channel Stereo)
480i	480 visible lines, interlaced
480p	480 visible lines, progressive scan
ACI	Automatic Channel Installation: algorithm that installs TV channels directly from a cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control; Control signal used to tune and lock to the correct frequency
AGC	Automatic gain control (feedback) signal to the tuner. This circuit ensures a constant output amplitude regardless of the input amplitude
AM	Amplitude Modulation; A "data encoding to a carrier" method, such that the carrier amplitude is proportional to the data value
AP or A/P	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASD	Automatic Standard Detection
AV	External Audio Video
B-SC1-IN	Blue SCART1/EXT1 in
B-SC2-IN	Blue SCART2/EXT2 in
B-TXT	Blue TeleteXT
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz. B= VHF-band, G= UHF-band
C-FRONT	Chrominance front input
CBA	Circuit Board Assembly (also called PCB or PWB)
CL	Constant Level: audio output to connect with an external amplifier
CLUT	Colour Look-Up Table
COFDM	Coded Orthogonal Frequency Division Multiplexing: a multiplexing technique, that distributes the data to be transmitted, over many carriers
COLUMBUS	COLour LUMinance Baseband Universal Subsystem. IC performing noise reduction and 2D/3D comb filtering
ComPair	Computer aided rePair. A tool for diagnosing a TV through a PC controlled interface
CSM	Customer Service Mode
CVBS	Composite Video and Blanking Signal; A single video signal that contains luminance, colour, and timing information
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DFU	Directions For Use: Owner's manual
DNR	Dynamic Noise Reduction / Digital Noise Reduction; Noise reduction feature of the set
DRAM	Dynamic RAM; dynamically refreshed RAM
DSP	Digital Signal Processing
DST	Dealer Service Tool; Special remote control designed for dealers to enter e.g. service mode (a DST-emulator is available in ComPair)

EEPROM	Electrically Erasable and Programmable Read Only Memory
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTView)
EU	Europe
EXT	EXTernal (source), entering the set by SCART or by cinches (jacks)
FBL	Fast BLanking; DC signal accompanying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level
FM	Field Memory; A memory chip that is capable of storing one or more TV picture fields / Frequency Modulation; A technique that sends data as frequency variations of a carrier signal
FRC	Frame Rate Converter
H	H_sync to the module
HA	Horizontal Acquisition; horizontal sync pulse
HD	High Definition
HP	HeadPhone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band
I^2C	Integrated IC bus
I^2S	Integrated IC Sound bus
IBO	Intelligent Bolt-On module
IC	Integrated Circuit
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IR	Infra Red
IRQ	Interrupt ReQuest
Last Status	The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences
LATAM	LATin AMerica
LC04	Philips chassis name for LCD TV 2004 project
LCD	Liquid Crystal Display
LED	Light Emitting Diode; A semiconductor diode that emits light when a current is passed through it
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
LS	LoudSpeaker
LVDS	Low Voltage Differential Signalling, data transmission system for high speed and low EMI communication.
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
MPEG	Motion Pictures Experts Group. An ISO/IEC body that has given its name to an image compressing scheme for moving video
MSP	Multi-standard Sound Processor: ITT sound decoder
MUTE	MUTE Line
NC	Not Connected
NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe
NTSC	National Television Standard Committee. Colour system used mainly in North America and Japan. Colour carrier NTSC M/N = 3.579545 MHz, NTSC 4.43 = 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non Volatile Memory; IC containing data such as alignment values, preset stations
O/C	Open Circuit
ON/OFF LED	On/Off control signal for the LED
OSD	On Screen Display
PAL	Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.433619 MHz) and South America (colour carrier PAL M = 3.575612 MHz and PAL N = 3.582056 MHz)
PC	Personal Computer
PCB	Printed Circuit Board (or PWB)
PIP	Picture In Picture
PLL	Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PWB	Printed Wiring Board (also called PCB or CBA)
RAM	Random Access Memory
RC	Remote Control transmitter
RC5 or 6	Remote Control system 5 or 6, the signal from the remote control receiver
RGB	Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced
RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
ROM	Read Only Memory
SAM	Service Alignment Mode
S/C	Short Circuit
SCART	Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs; This is a 21-pin connector used in EU, that carries various audio, video, and control signals (it is also called Péritel connector)
SCL	Serial CLock Signal on I^2C bus
SD	Standard Definition
SDA	Serial DAta Signal on I^2C bus
SDRAM	Synchronous DRAM
SECAM	SÉquence Couleur Avec Mémoire; Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switched Mode Power Supply
SND	SouND
SOPS	Self Oscillating Power Supply
SRAM	Static RAM
STBY	STandBY
SVHS	Super Video Home System
SW	Software or Subwoofer or Switch
THD	Total Harmonic Distortion
TXT	Teletext; TXT is a digital addition to analogue TV signals that contain textual and graphical information (25 rows x 40 columns). The information is

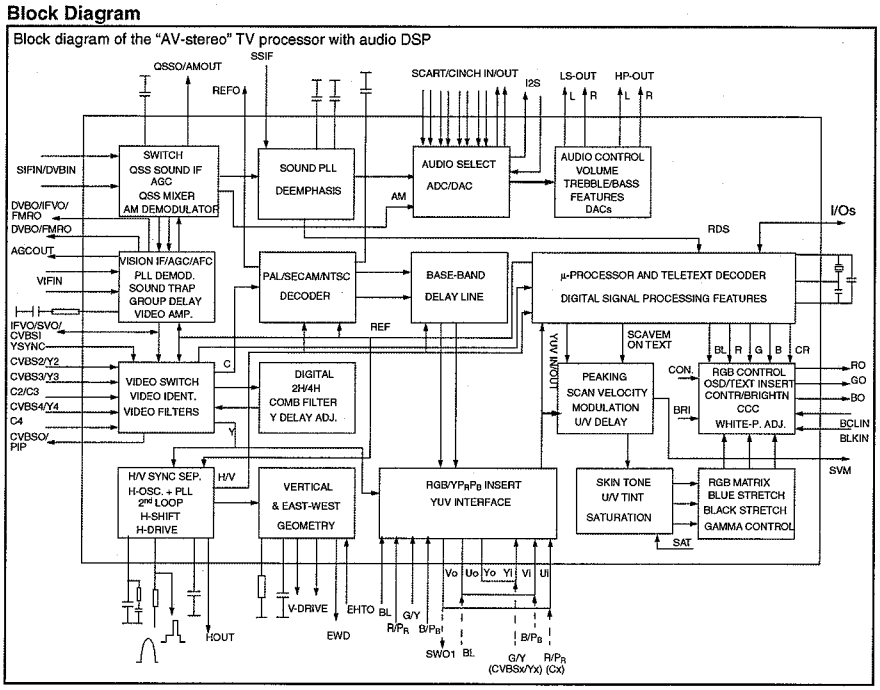
	transmitted within the first 25 lines during the Vertical Blank Interval (VBI)
uP	Microprocessor
VA	Vertical Acquisition
VL	Variable Level out: processed audio output towards external amplifier
VCR	Video Cassette Recorder
VGA	Video Graphics Array; 640x480 (4:3)
WD	Watch Dog
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XTAL	Quartz crystal
Y	Luminance signal
Y/C	Y consists of luminance signal, blanking level and sync; C consists of chroma (colour) signal
YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals

9.5 IC Data Sheets

This section shows the internal block diagrams and pin layouts of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

9.5.1 Diagram B2, Type TDA15021H (IC7217, Hercules)

Block Diagram



Pin Configuration

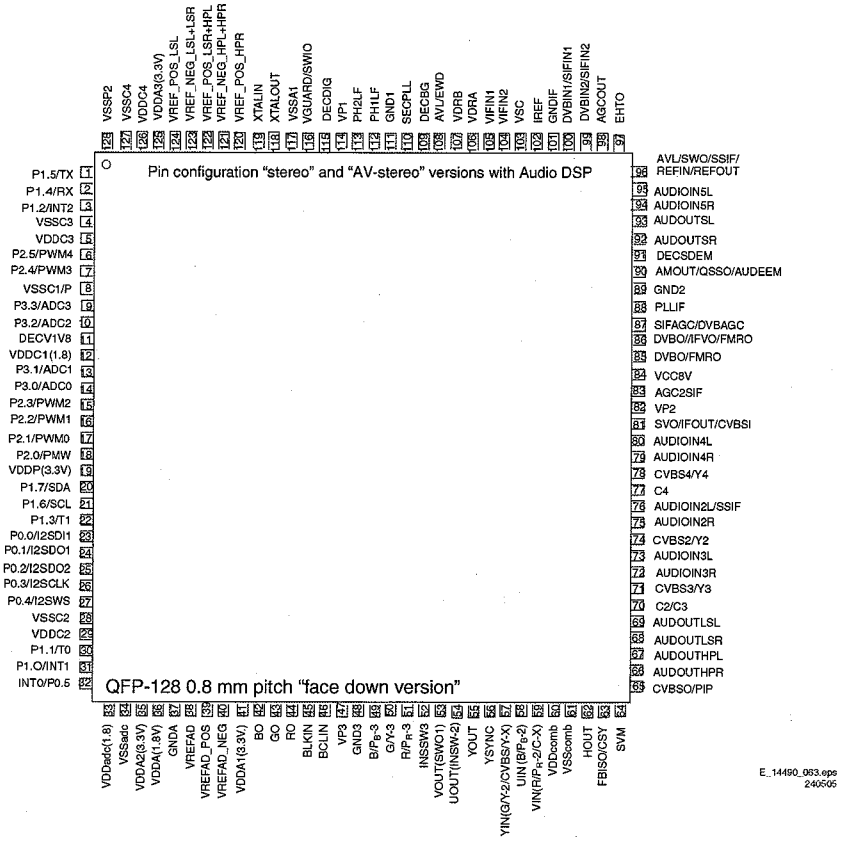


Figure 9-3 Internal block diagram and pin configuration

9.5.2 Diagram B19, Type T6TU5XB (IC7M00, Columbus)

Figure 1 Package outline (top view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A	WEB/ DAVB	UVA0 /Di0	UVA2 /Di2	UVA4 /Di4	UVA6 /Di6	UVA8 /Di8	SEL656	TST1	YA2	YA4	YA6	YA8	VA	HREF	SDA	A
B	YB8	VSS	UVA1 /Di1	UVA3 /Di3	UVA5 /Di5	UVA7 /Di7	YA0 /Di9	BISTEN	YA1	YA3	YA5	YA7	WEA/ DAVA	VSS	SCL	B
C	YB7	YB6	VSS	VDDS	VSS	VSS	VDDC	VDDC	VSS	VSS	VDDC	VDDS	VSS	SNDA	SNRST	C
D	YB5	YB4	VDDC	N.C.									VSS	SNCL	TCK	D
E	YB3	YB2	VSS										VDDC	TMS	TDO	E
F	TST2	YB1	VSS										VSS	TRST	TDI	F
G	CLKASB	YB0 /Do9	VDDS				COLUMBUS TOP-VIEW						VDDS	A0ICC	RESET	G
H	CLKASA	UVB8/ Do8	TST3										VDDC	CLK EXT	CLKSEL	H
J	UVB7 /Do7	UVB6/ Do6	VSS				PPA Version 2.7						VSS	CLK	WEN	J
K	UVB5 /Do5	UVB4/ Do4	VDDC										VSS	CASN	RASN	K
L	UVB3 /Do3	UVB2 /Do2	VSS										VDDS	DQM	DQ16	L
M	UVB1 /Do1	UVB0 /Do0	VDDS										VSS	DQ14	DQ15	M
N	AVD	N.C.	VDDS	VSS	VSS	VDDC	VSS	VDDS	VDDC	VSS	VDDS	VSS	VSS	VDDS	DQ13	N
P	AVS	VSS	A7	A9	A2	A0	A11	DQ7	DQ6	DQ4	DQ3	DQ1	VDDS	VSS	DQ12	P
R	A4	A5	A6	A8	A3	A1	A10	DQ8	VSS	DQ5	VSS	DQ2	DQ9	DQ10	DQ11	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

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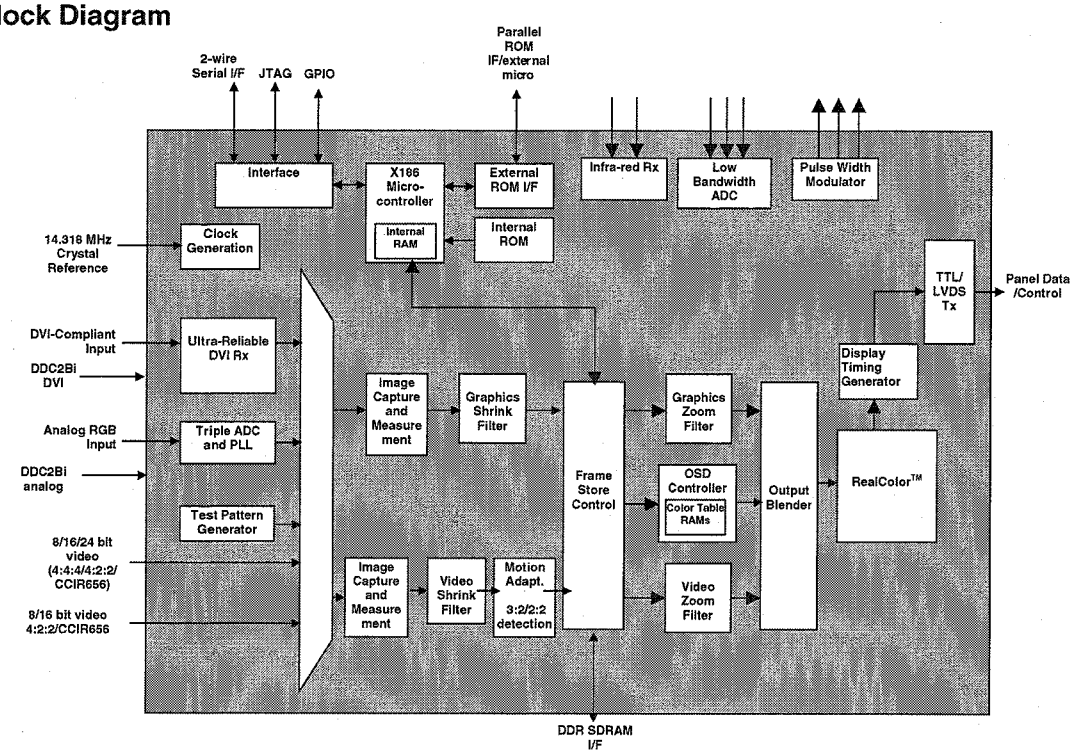
200804

Figure 9-4 Pin configuration

9.5.3 Diagram B7+B8+B9, Type GM1501 (IC7801, Genesis)

Block Diagram



Pin Configuration

	1	2	3	4	5	6	7	8	9	10	11	12	13
A	NC	ADC_3.3	ADC_1.8	ADC_1.8	ADC_GND	RXC+	DVI_GND	RX0+	RX1+	RX2+	DVI_GND	LBADC_N3	D_GND
B	BLUE-	BLUE+	ADC_3.3	ADC_AGND	DVI_GND	RXC-	DVI_GND	RX0-	RX1-	RX2-	REXT	LBADC_N2	D_GND
C	GREEN-	GREEN+	SOG	ADC_AGND	NC	DVI_3.3	DVI_GND	DVI_3.3	DVI_3.3	DVI_3.3	DVI_3.3	LBADC_N1	LBADC_P3
D	RED-	RED+	ADC_3.3	ADC_AGND	NC	DVI_1.8	DVI_GND	DVI_1.8	DVI_1.8	DVI_3.3	DVI_GND	LBADC_ RETURN	LBADC_GND
E	ADC_AGND	ADC_AGND	ADC_3.3	ADC_AGND									
F	NC	VDDD33_ PLL	VSSA33_ RPLL	VDDA33_ RPLL									
G	VDDA33_ FPLL	VSSD33_ PLL	TCLK	XTAL									
H	VDDD33_ SDDS	VSSA33_ SDDS	VDDA33_ SDDS	VSSA33_ FPLL									
J	VDDD33_ DDDS	VSSA33_ DDDS	VDDA33_ DDDS	VSSD33_ SDDS									
K	RESETn	ACS_ RSET_HD	NC	VSSD33_ DDDS						CORE_1.8	CORE_1.8	D_GND	D_GND
L	OCM_INT2	OCM_INT1	AVSYNC	AHSYNC						D_GND	CORE_1.8	D_GND	D_GND
M	OCM_UDO	OCM_UDI	IR0	IR1						D_GND	D_GND	D_GND	D_GND
N	VGA_SDA	VGA_SCL	DVI_SDA	DVI_SCL						D_GND	D_GND	D_GND	D_GND
P	OCM_CS1n	OCM_CS2n	MSTR_SDA	MSTR_SCL						D_GND	D_GND	D_GND	D_GND
R	ROM_CSn	OCM_REn	OCM_WEn	EXTCLK						D_GND	D_GND	D_GND	D_GND
T	OCMADDR 17	OCMADDR 18	OCMADDR 19	OCM_CS0n						D_GND	CORE_1.8	D_GND	D_GND
U	OCMADDR 13	OCMADDR 14	OCMADDR 15	OCMADDR 16						CORE_1.8	CORE_1.8	D_GND	D_GND
V	OCMADDR 9	OCMADDR 10	OCMADDR 11	OCMADDR 12									
W	OCMADDR 6	OCMADDR 7	OCMADDR 8	IO_3.3									
Y	OCMADDR 3	OCMADDR 4	OCMADDR 5	IO_3.3									
AA	OCMADDR 0	OCMADDR 1	OCMADDR 2	IO_3.3									
AB	OCMDATA13	OCMDATA14	OCMDATA15										
AC	OCMDATA10	OCMDATA11	OCMDATA12		GPIO_G09_ B2 (DEGRN0)	IO_3.3	DCLK		GPIO_G07_ B2 (DERED4)	IO_3.3	SHIELD[1] (DEGRN3)	LVDS_3.3	
AD	OCMDATA9	OCMDATA6	OCMDATA3	OCMDATA0	GPIO_G09_ B3 (DEGRN1)	GPIO_G08_ B0 (DORED0)	DEN	GPIO_G08_ B5 (DOBLU1)	GPIO_G07_ B3 (DERED5)	GPIO_G07_ B6 (DERED8)	SHIELD[2] (DEGRN4)	LVDS_3.3	LVDS_GND
AE	OCMDATA8	OCMDATA5	OCMDATA2	GPIO_G09_ B0 (DERED0)	GPIO_G09_ B4 (DEBLU0)	GPIO_G08_ B1 (DORED1)	GPIO_G08_ B3 (DOGRN1)	GPIO_G07_ B0 (DERED2)	GPIO_G07_ B4 (DERED6)	GPIO_G07_ B7 (DERED9)	SHIELD[3] (DEGRN5)	BC+ (DEGRN8)	SHIELD[4] (DEBLU2)
AF	OCMDATA7	OCMDATA4	OCMDATA1	GPIO_G09_ B1 (DERED1)	GPIO_G09_ B5 (DEBLU1)	GPIO_G08_ B2 (DOGRN0)	GPIO_G08_ B4 (DOBLU0)	GPIO_G07_ B1 (DERED3)	GPIO_G07_ B5 (DERED7)	SHIELD[0] (DEGRN2)	B3+ (DEGRN6)	B3- (DEGRN7)	BC- (DEGRN9)

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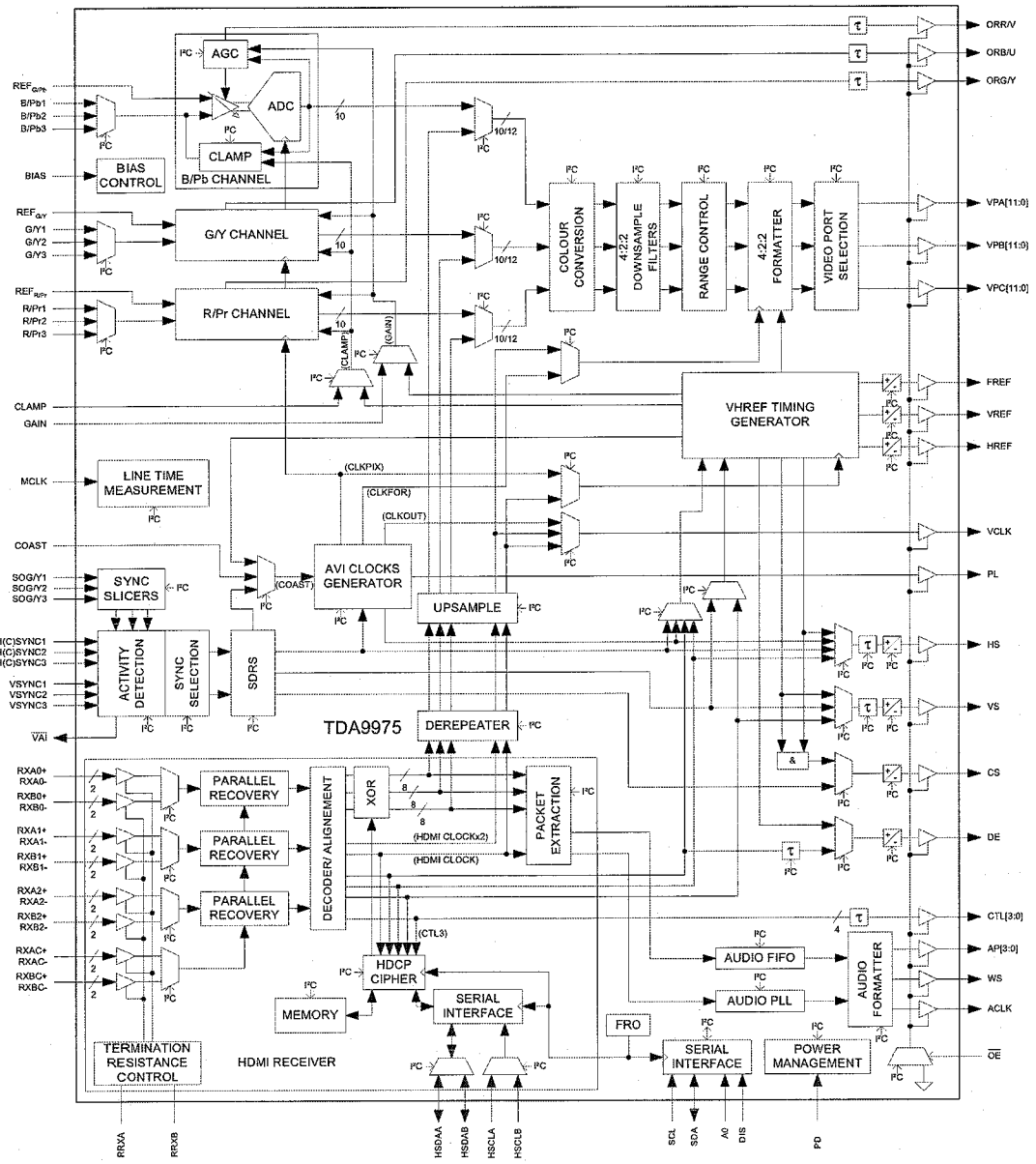
241204

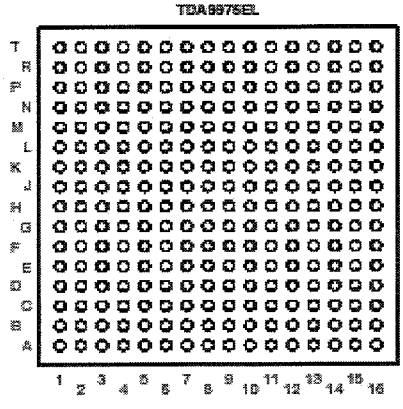
Figure 9-5 Internal block diagram and pin configuration

9.5.4 Diagram B12, Type TDA9975EL (IC7D03, HDMI Panellink), Reserved

Block Diagram



Pin Configuration



F_15400_135.eps
240505

Figure 9-6 Internal block diagram and pin configuration

10. Spare Parts List

Sets Listed

	8670 000 23104	26PF5321/10
	8670 000 23818	26PF5321/12
	8670 000 24193	26PF5321F/10
	8670 000 24025	26PF5411/10
	8670 000 23846	26PF7321/12
	8670 000 23114	32PF5321/10
	8670 000 23819	32PF5321/12
	8670 000 23944	32PF5411/10
	8670 000 23886	32PF7321/12
	8670 000 24028	32PF7411/10
	8670 000 23117	37PF5321/10
	8670 000 23821	37PF5321/12
	8670 000 23847	37PF7321/12
	8670 000 23946	42PF5421/10

Set Level

Various

1004▲	9322 234 12682	LC420W02-SLB1
1068	3104 328 38021	Supply LCD 32"
1099▲	9322 221 01682	LC260WX2-SL01 (LPL)
1099▲	9322 226 16682	LQ315T3LZ33
1099▲	9322 230 03682	LC320W01-SL06
1099▲	9322 231 90682	T260XW02V4
1099▲	9322 233 19682	LC370WX1-SL04
1099▲	9322 234 13682	LC260WX2-SLB2
1112	3139 267 23021	IR/LED Assy ME5P
1112	3104 328 39571	LED panel LC04SD2
1112	3139 267 24041	ASSY IR SD2.1
1114	3104 328 39561	Side control LC04SD2
1114	3139 188 89031	Keyboard & Control Assy
1114	3139 268 02131	Keyboard Assy ME5P
1116	3139 188 89021	Side I/O Assy
1116	3104 328 47601	Side I/O Assy
1116	3139 188 89021	Side I/O Assy
1174	3139 267 26731	Audio Ampl. assy 26/32
1174	3139 268 02421	Audio Stdby Assy 37W
1188	3122 137 23171	Power Supply Unit 32"
1188▲	3122 137 23191	Power Supply Unit 26"
8002	3104 311 07121	Cable 2p3/220/Inlet
8002	3104 311 08061	Cable 2p3/120/Inlet
8101	3104 311 10171	Cable 3p/1000/3p
8120▲	3104 311 11891	Cable 6p/560/6p
8136▲	3104 311 10291	Cable 11p/820/11p
8150	3104 311 09701	Cable 31p/380/30p
8302▲	3104 311 01281	Cable 7p/820/7p
8302	3104 311 07591	Cable 7p/820/7p
8303	3104 311 08261	Cable 4p/820/4p
8304	3104 311 08291	Cable 4p/680/4p
8307▲	3104 311 04321	Cable 9p/450/9p
8308▲	3104 311 08061	Cable 2p3/120/Inlet
8309	3104 311 08321	Cable 3p/680/3p
8317▲	3104 311 12071	Cable 12p/1k3/12p
8319▲	3104 311 12081	Cable 14p/180/14p
8320▲	3104 311 08331	Cable 3p/820/3p
8520	3104 311 11571	Cable 14p/140/14p Wh
8520	3139 131 05541	Cable 14p/140/14p
8520	3139 131 06081	Cable Inverter
8520	3139 131 06731	Cable 14p/280/14p
8520	3139 131 07061	Cable 12p/14p/820
8521	3104 311 08191	Cable 12p/1200/12p
8735	3104 311 07491	Cable 2p3/480/2p
8736	3104 311 07541	Cable 2P3/1200/2p
8870	3139 110 27891	Cable 6p 400
8870	3104 311 09151	Cable 6p/400/6p
8903	3104 311 09141	Cable 4p/560
8903	3104 311 10071	Cable 4p/560
8P06	3104 311 09701	Cable 31p/380/30p
8P06	3139 131 05471	Cable 30p/280/30p
8P06	3139 131 06001	Cable 30p/140/30p

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5213	2422 264 00537	Loudsp. 4W 15W
5213	2422 264 00539	Loudsp. 8Ω 15W
5213	2441 257 30020	Loudsp. 8Ω 10W
5214	2441 257 30020	Loudsp. 8Ω 10W

🔊

7298	3139 123 22551	SPEAKER FOAM

LCD Supply 37" [A]

Various

0100	4822 070 35002	Fuse 5A
1007▲	4822 071 55002	Fuse T5A 250V
1302	4822 252 60151	Surge protect
1303	4822 252 60151	Surge protect
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1308	4822 265 20723	Connector 2p
1314	4822 265 11253	Fuse holder
1315	4822 265 11253	Fuse holder
1350▲	2422 132 07411	Relay 1p 5V 5A

⊣⊢

2002	2020 012 00006	680µF 20% 25V
2003	4822 124 80061	1000µF 20% 25V
2006	5322 126 11578	1nF 10% 50V 0603
2007	2020 552 96684	470nF 10% 25V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	4822 126 13881	470pF 5% 50V
2010	4822 124 40207	100µF 20% 25V
2012	4822 126 13862	1.5nF 10% 2kV
2013	4822 126 13862	1.5nF 10% 2kV
2014	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2018	4822 124 12417	2200µF 20% 25V
2019	5322 126 11583	10nF 10% 50V 0603
2020	2020 021 00039	1800µF 20% 35V
2021	4822 126 13881	470pF 5% 50V
2022	2020 021 00039	1800µF 20% 35V
2023	2020 552 96684	470nF 10% 25V 0805
2024	2238 586 59812	100nF 20% 50V 0603
2025	2022 552 05679	1µF 10% 16V 0805
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2031	5322 126 11583	10nF 10% 50V 0603
2033	2022 552 05679	1µF 10% 16V 0805
2034	4822 124 12417	2200µF 20% 25V
2035	5322 126 11578	1nF 10% 50V 0603
2036	5322 126 11578	1nF 10% 50V 0603
2037	4822 126 14238	2.2nF 50V 0603
2038	2020 021 00039	1800µF 20% 35V
2039	5322 126 11583	10nF 10% 50V 0603
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 021 00039	1800µF 20% 35V
2042	5322 126 11578	1nF 10% 50V 0603
2043	2020 021 00039	1800µF 20% 35V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2049	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	5322 126 11583	10nF 10% 50V 0603
2052	4822 126 14238	2.2nF 50V 0603
2053	4822 126 13881	470pF 5% 50V
2054	4822 126 13881	470pF 5% 50V
2055	4822 126 14238	2.2nF 50V 0603
2056	4822 126 14238	2.2nF 50V 0603
2057	4822 126 14238	2.2nF 50V 0603
2058	2238 867 18101	100pF 1% 50V 0603
2059	2222 375 24153	15nF 5% 1kV
2060	2222 375 24153	15nF 5% 1kV
2061	2238 867 18101	100pF 1% 50V 0603
2062	2238 867 18101	100pF 1% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603
2300▲	2222 339 22474	470µF 20% 275V
2301▲	2222 339 22474	470µF 20% 275V
2307▲	2252 811 95065	220pF 10% 250V
2316	2020 024 00001	330µF 20% 400V
2318▲	2252 811 95065	220pF 10% 250V
2319	2222 338 22105	1µF 20% 275V
2320	2020 024 00001	330µF 20% 400V

-WW-

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30222	2.2kΩ 5% 0.062W
3003	4822 051 30472	4.7Ω 5% 0.062W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30223	22kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 051 20229	22kΩ 5% 0.1W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30103	10kΩ 5% 0.062W
3025	4822 051 30152	1.5Ω 5% 0.062W
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30102	1kΩ 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3032	4822 051 30223	22kΩ 5% 0.062W
3033	4822 051 30561	560Ω 5% 0.062W
3034	4822 051 30471	47Ω 5% 0.062W
3035	4822 051 30101	100Ω 5% 0.062W
3036	4822 051 30103	10kΩ 5% 0.062W
3037	4822 051 30153	15kΩ 5% 0.062W
3039	4822 051 30102	1kΩ 5% 0.062W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3042	4822 051 30222	2.2kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3044	4822 051 30103	10kΩ 5% 0.062W
3045	4822 051 20229	22kΩ 5% 0.1W
3046	4822 051 20229	22kΩ 5% 0.1W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3049	4822 117 13632	100kΩ 1% 0603 0.62W
3051	4822 051 30103	10kΩ 5% 0.062W
3052	4822 051 30153	15kΩ 5% 0.062W
3054	4822 051 30683	68kΩ 5% 0.062W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3059	5322 117 13019	100kΩ 1% 0.063W 0603
3060	4822 051 30103	10kΩ 5% 0.062W
3061	4822 051 30332	3.3Ω 5% 0.062W
3062	4822 051 30332	3.3Ω 5% 0.062W
3063	4822 051 30103	10kΩ 5% 0.062W
3065	4822 051 30102	1kΩ 5% 0.062W
3071	4822 050 25602	5K60 1% 0.6W
3073	4822 050 25602	5K60 1% 0.6W
3076	4822 050 25602	5K60 1% 0.6W
3077	4822 050 25602	5K60 1% 0.6W
3078	4822 050 25602	5K60 1% 0.6W
3079	4822 050 25602	5K60 1% 0.6W
3081	4822 050 25602	5K60 1% 0.6W
3082	4822 050 25602	5K60 1% 0.6W
3083	4822 050 25602	5K60 1% 0.6W
3085	4822 050 25602	5K60 1% 0.6W
3086	4822 050 25602	5K60 1% 0.6W
3087	4822 050 25602	5K60 1% 0.6W
3089	4822 051 30103	10kΩ 5% 0.062W
3300▲	2122 550 00158	VDR 1mA 612V
3301▲	4822 053 21475	4.7MΩ 5% 0.5W
3302▲	4822 053 21475	4.7MΩ 5% 0.5W
3303▲	4822 053 21475	4.7MΩ 5% 0.5W
3304	4822 116 83872	220Ω 5% 0.5W
3305	4822 116 83872	220Ω 5% 0.5W
3306	4822 051 30102	1kΩ 5% 0.062W
3308	4822 053 11223	22kΩ 5% 2W
3318	4822 053 10471	470Ω 5% 1W
3999	4822 051 30102	1kΩ 5% 0.062W

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5001	2422 531 02444	S13932-04Y
5002	3104 308 21211	BS51321-02 B
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz

5011	3104 308 21211	BS51321-02 B
5012	4822 526 10704	Bead 50 Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5018	2422 535 94636	3.3µF 20%
5019	2422 536 00776	33µH 10%
5020	2422 536 00776	33µH 10%
5021	4822 157 11411	Bead 80Ω at 100MHz
5022	4822 157 11411	Bead 80Ω at 100MHz
5025	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 157 11411	Bead 80Ω at 100MHz
5303	3104 308 21201	Line filter DTH40383H65

6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6014	9340 548 71115	PDZ33B
6015	4822 130 11397	BAS316
6017	4822 130 11397	BAS316
6018	4822 130 11152	UDZ18B
6019	9322 173 47687	STPS20L40CFP
6021	4822 130 11596	BYW29EX-200
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6024	9322 202 55685	BYG22D
6025	9322 202 55685	BYG22D
6026	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6029	4822 130 11596	BYW29EX-200
6030	4822 130 11596	BYW29EX-200
6031	4822 130 11596	BYW29EX-200
6032	9322 202 55685	BYG22D
6033	9322 202 55685	BYG22D
6038	4822 130 11397	BAS316
6040	4822 130 11596	BYW29EX-200
6041	4822 130 11596	BYW29EX-200
6304	4822 130 11397	BAS316
6305	4822 130 11397	BAS316
6306	4822 130 83147	DF06M
6307	9322 199 74682	GBJ6J-B15
6314	9340 292 50135	BZG03-C200
6315	9340 292 50135	BZG03-C200
6316	9340 548 71115	PDZ33B
6318	4822 130 11397	BAS316
6360	4822 130 11397	BAS316
6361	4822 130 11397	BAS316

7001	9322 108 21682	MC34067P
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 192 16685	TS2431AI
7011	3198 010 42320	BC857BW
7012	3198 010 42310	BC847BW
7307▲	9322 149 04682	TCET1102

LCD Supply 42" [A]

Various

1303	2422 025 04475	Connector 4p m
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1308	4822 265 20723	Connector 2p
1309	2422 025 11143	Connector 3p m
1320	2422 025 11143	Connector 3p m
1400▲	4822 070 33152	Fuse 3.15A
1402	4822 252 60151	Surge protect
1405▲	4822 265 11253	Fuse holder
1410▲	4822 265 11253	Fuse holder
1420	3104 311 08391	Cable 3p/140/3p Wh
1450▲	2422 132 07411	Relay 1p 5V 5A
1B06	4822 267 10735	Connector 3p
1C05	4822 267 10735	Connector 3p
1D00▲	4822 070 33152	Fuse 3.15A
1D02	4822 252 60151	Surge protect
1D10▲	4822 265 11253	Fuse holder
1D50▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1U07▲	2422 086 00678	Fuse 5A T 250V

2002	4822 124 11767	470µF 20% 25V
2003	4822 124 80061	1000µF 20% 25V
2007	2020 552 96684	470nF 10% 25V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100µF 20% 25V
2011	4822 121 70617	10nF 5% 1.6kV
2012	4822 126 13862	1.5nF 10% 2kV
2013	4822 126 13862	1.5nF 10% 2kV
2014	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	4822 121 70617	10nF 5% 1.6kV
2019	5322 126 11583	10nF 10% 50V 0603
2020	4822 124 12285	2200µF 20% 16V
2021	2238 867 18101	100pF 1% 50V 0603
2022	2020 021 00039	1800µF 20% 35V
2023	2020 552 96684	470nF 10% 25V 0805
2024	2020 552 96326	220nF 10% 16V
2025	4822 121 51319	1µF 10% 63V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2031	5322 126 11583	10nF 10% 50V 0603
2032	4822 126 13193	4.7nF 10% 63V
2033	4822 121 51319	1µF 10% 63V
2034	2238 867 18101	100pF 1% 50V 0603
2035	5322 126 11578	1nF 10% 50V 0603
2038	2020 021 00039	1800µF 20% 35V
2039	5322 126 11583	10nF 10% 50V 0603
2040	4822 126 14249	560pF 10% 50V 0603
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2400▲	2222 338 22474	470nF 20% 275V
2401▲	2222 338 22474	470nF 20% 275V
2405▲	2020 554 90167	220pF 10% 250V
2407▲	2020 554 90167	220pF 10% 250V
2816	2020 024 90749	330µF 20% 400V
2817	4822 121 70162	10nF 5% 400V
2B90	5322 126 11583	10nF 10% 50V 0603
2B91	4822 126 13881	470pF 5% 50V
2B92	4822 124 12417	2200µF 20% 25V
2B93	4822 126 13881	470pF 5% 50V
2B94	4822 124 12417	2200µF 20% 25V
2D00▲	2222 338 22474	470nF 20% 275V
2D01▲	2222 338 22474	470nF 20% 275V
2D05▲	2020 554 90167	220pF 10% 250V
2D07▲	2020 554 90167	220pF 10% 250V
2H16	2020 024 90749	330µF 20% 400V
2H17	4822 121 70162	10nF 5% 400V
2U02	4822 124 11767	470µF 20% 25V
2U03	4822 124 80061	1000µF 20% 25V
2U07	2020 552 96684	470nF 10% 25V 0805
2U08	4822 126 14583	470nF 10% 16V 0805
2U09	2238 867 18101	100pF 1% 50V 0603
2U10	4822 124 40207	100µF 20% 25V
2U11	4822 121 70617	10nF 5% 1.6kV
2U12	4822 126 13862	1.5nF 10% 2kV
2U13	4822 126 13862	1.5nF 10% 2kV
2U14	4822 126 13451	2.2nF 10% 2kV
2U15	5322 126 11583	10nF 10% 50V 0603
2U16	2238 586 59812	100nF 20% 50V 0603
2U17	4822 121 70617	10nF 5% 1.6kV
2U19	5322 126 11583	10nF 10% 50V 0603
2U21	2238 867 18101	100pF 1% 50V 0603
2U22	2020 021 00039	1800µF 20% 35V
2U23	2020 552 96684	470nF 10% 25V 0805
2U24	2020 552 96326	220nF 10% 16V
2U25	4822 121 51319	1µF 10% 63V
2U26	4822 126 14238	2.2nF 50V 0603
2U29	5322 126 11578	1nF 10% 50V 0603
2U32	4822 126 13193	4.7nF 10% 63V
2U33	4822 121 51319	1µF 10% 63V
2U34	2238 867 18101	100pF 1% 50V 0603
2U38	2020 021 00039	1800µF 20% 35V
2U39	5322 126 11583	10nF 10% 50V 0603
2U40	4822 126 14249	560pF 10% 50V 0603
2U45	5322 126 11578	1nF 10% 50V 0603
2U46	3198 017 34730	47nF 16V 0603
2U47	5322 126 11583	10nF 10% 50V 0603
2U48	5322 126 11578	1nF 10% 50V 0603
2U50	5322 126 11578	1nF 10% 50V 0603
2U60	4822 126 14238	2.2nF 50V 0603
2U61	4822 126 14238	2.2nF 50V 0603
2U62	4822 126 14238	2.2nF 50V 0603
2U63	4822 126 13881	470pF 5% 50V
2U64	4822 126 13881	470pF 5% 50V
2U65	4822 126 14238	2.2nF 50V 0603
2U71	5322 126 11578	1nF 10% 50V 0603
2U72	5322 126 11578	1nF 10% 50V 0603
2U77	4822 126 14238	2.2nF 50V 0603

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30103	10kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30222	2.2kΩ 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30222	2.2kΩ 5% 0.062W
3020	4822 051 30222	2.2kΩ 5% 0.062W
3021	3198 021 32290	22Ω 5% 0603
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30102	1kΩ 5% 0.062W
3029	4822 051 30222	2.2kΩ 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30223	22kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3034	4822 051 30102	1kΩ 5% 0.062W
3037	4822 051 30153	15kΩ 5% 0.062W
3038	4822 051 30333	33kΩ 5% 0.062W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3045	3198 021 32290	22Ω 5% 0603
3046	3198 021 32290	22Ω 5% 0603
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3052	2322 704 67502	7.5kΩ 1% 0.5W
3053	4822 050 26804	680kΩ 1% 0.6W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 117 12925	47kΩ 1% 0.063W 0603
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3089	4822 051 30103	10kΩ 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400▲	2122 550 00158	VDR 1mA 612V
3401▲	4822 053 21475	4.7MΩ 5% 0.5W
3402▲	4822 053 21475	4.7MΩ 5% 0.5W
3403▲	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W

3406▲	4822 052 10101	100Ω 5% 0.33W
3407▲	4822 052 10101	100Ω 5% 0.33W
3999	4822 051 30102	1kΩ 5% 0.062W
3B92	4822 051 30561	560Ω 5% 0.062W
3D00▲	2122 550 00158	VDR 1mA 612V
3D04	4822 116 83872	220Ω 5% 0.5W
3U00▲	4822 052 10478	4.7Ω 5% 0.33W
3U01	4822 051 30101	100Ω 5% 0.062W
3U02	4822 051 30103	10kΩ 5% 0.062W
3U03	4822 117 13632	100kΩ 1% 0603 0.62W
3U04	4822 051 30273	27kΩ 5% 0.062W
3U05	4822 051 30333	33kΩ 5% 0.062W
3U06	4822 051 30103	10kΩ 5% 0.062W
3U07	4822 051 30103	10kΩ 5% 0.062W
3U08	4822 051 30331	330Ω 5% 0.062W
3U09	4822 051 30332	3.3Ω 5% 0.062W
3U10	4822 051 30471	47Ω 5% 0.062W
3U11	4822 051 30471	47Ω 5% 0.062W
3U12	4822 051 30153	15kΩ 5% 0.062W
3U13	4822 051 30103	10kΩ 5% 0.062W
3U14▲	4822 052 10101	100Ω 5% 0.33W
3U15▲	4822 052 10479	47Ω 5% 0.33W
3U16	4822 051 30222	2.2kΩ 5% 0.062W
3U17▲	4822 052 10101	100Ω 5% 0.33W
3U18▲	4822 052 10479	47Ω 5% 0.33W
3U19	4822 051 30222	2.2kΩ 5% 0.062W
3U20	4822 051 30222	2.2kΩ 5% 0.062W
3U21	3198 021 32290	22Ω 5% 0603
3U22	4822 051 30331	330Ω 5% 0.062W
3U23	4822 051 30153	15kΩ 5% 0.062W
3U24	2322 704 61803	18kΩ 1% 0603
3U25	3198 021 31820	1.8kΩ 5% 0.062W 0603
3U26	2120 368 90118	Potm. lin. 470Ω hor.
3U27	4822 117 13632	100kΩ 1% 0603 0.62W
3U28	4822 051 30102	1kΩ 5% 0.062W
3U29	4822 051 30222	2.2kΩ 5% 0.062W
3U30	4822 051 30183	18kΩ 5% 0.062W
3U31	4822 051 30223	22kΩ 5% 0.062W
3U32	4822 051 30103	10kΩ 5% 0.062W
3U34	4822 051 30102	1kΩ 5% 0.062W
3U38	4822 051 30333	33kΩ 5% 0.062W
3U39	4822 051 30331	330Ω 5% 0.062W
3U40	3198 021 38220	8.2kΩ 5% 0.062W 0603
3U41	4822 051 30333	33kΩ 5% 0.062W
3U43	4822 051 30109	10Ω 5% 0.062W
3U45	3198 021 32290	22Ω 5% 0603
3U46	3198 021 32290	22Ω 5% 0603
3U47	4822 051 30479	47Ω 5% 0.062W
3U48	4822 051 30272	2.7kΩ 5% 0.062W
3U50	4822 050 28204	820kΩ 1% 0.6W
3U52	4822 051 30221	220Ω 5% 0.062W
3U53	4822 050 26804	680kΩ 1% 0.6W
3U55	4822 051 30221	220Ω 5% 0.062W
3U56	4822 051 30221	220Ω 5% 0.062W
3U57	4822 051 30221	220Ω 5% 0.062W
3U58	4822 053 20565	5.6MΩ 5% 0.25W
3U61	4822 051 30683	68kΩ 5% 0.062W
3U64	4822 051 30103	10kΩ 5% 0.062W
3U65	4822 117 12925	47kΩ 1% 0.063W 0603
3U66	4822 051 30103	10kΩ 5% 0.062W
3U67	4822 051 30101	100Ω 5% 0.062W
3U68	4822 051 30222	2.2kΩ 5% 0.062W
3U70	4822 051 30102	1kΩ 5% 0.062W
3U71	4822 051 30103	10kΩ 5% 0.062W
3U75	4822 051 30102	1kΩ 5% 0.062W
3U89	4822 051 30103	10kΩ 5% 0.062W

5001	2422 531 02444	S13932-04Y
5002▲	3104 308 21111	BS51312-01
5004	4822 526 10704	Bead 50 Ω at 100MHz
5005	4822 157 11411	Bead 80Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 157 11411	Bead 80Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 157 11411	Bead 80Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 157 11411	Bead 80Ω at 100MHz
5027	4822 157 11411	Bead 80Ω at 100MHz
5028	4822 157 11411	Bead 80Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5041	4822 526 10704	Bead 50 Ω at 100MHz
5400▲	2422 549 43286	Filt. DMF2835H*B
5403	3104 308 21201	Line filter DTH40383H65
5B91	2422 536 00776	33µH 10%
5B92	2422 536 00776	33µH 10%
5B93	2422 536 00776	33µH 10%
5D00▲	2422 549 43286	Filt. DMF2835H*B
5D03	3104 308 21201	Line filter DTH40383H65
5U01	2422 531 02444	S13932-04Y
5U02▲	3104 308 21111	BS51312-01
5U04	4822 526 10704	Bead 50 Ω at 100MHz
5U05	4822 157 11411	Bead 80Ω at 100MHz
5U07	4822 526 10704	Bead 50 Ω at 100MHz
5U08	4822 157 11411	Bead 80Ω at 100MHz
5U09	4822 157 11411	Bead 80Ω at 100MHz
5U10	4822 157 11411	Bead 80Ω at 100MHz
5U13	4822 157 11411	Bead 80Ω at 100MHz
5U15	4822 157 11411	Bead 80Ω at 100MHz
5U16	4822 157 11411	Bead 80Ω at 100MHz
5U17	4822 526 10704	Bead 50 Ω at 100MHz
5U25	4822 157 11411	Bead 80Ω at 100MHz
5U26	4822 157 11411	Bead 80Ω at 100MHz
5U40	4822 157 11411	Bead 80Ω at 100MHz
5U41	4822 526 10704	Bead 50 Ω at 100MHz

6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6014	4822 130 11596	BYW29EX-200
6015	9340 548 67115	PDZ22B
6016	4822 130 11397	BAS316
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 192 03687	STPS20H100CFP
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6044	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6077	9322 202 55685	BYG22D
6078	5322 130 31938	BYV27-200
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6156	9322 099 61685	BYG10J
6157	9322 099 61685	BYG10J
6158	9322 099 61685	BYG10J
6159	9322 099 61685	BYG10J
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6506	4822 130 83147	DF06M
6807	9322 199 74682	GBJ6J-B15
6B91	4822 130 11596	BYW29EX-200
6B93	4822 130 11596	BYW29EX-200
6D60	4822 130 11397	BAS316
6D61	4822 130 11397	BAS316
6H07	9322 199 74682	GBJ6J-B15
6U01	4822 130 11397	BAS316
6U02	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 80622	BAT54
6U05	4822 130 80622	BAT54
6U06	4822 130 11397	BAS316
6U07	4822 130 11397	BAS316
6U08	4822 130 11397	BAS316
6U09	4822 130 11152	UDZ18B
6U10	4822 130 11397	BAS316
6U11	4822 130 11397	BAS316
6U12	9322 208 80685	BZG05C15
6U13	9322 208 80685	BZG05C15
6U15	9340 548 67115	PDZ22B
6U16	4822 130 11397	BAS316
6U17	4822 130 11397	BAS316
6U20	4822 130 11397	BAS316
6U21	9322 192 03687	STPS20H100CFP
6U22	4822 130 11148	UDZ4.7B
6U23	4822 130 11397	BAS316
6U27	4822 130 11397	BAS316
6U28	4822 130 11397	BAS316
6U51	4822 130 11397	BAS316
6U77	9322 202 55685	BYG22D
6U78	5322 130 31938	BYV27-200
6U79	9322 202 55685	BYG22D
6U81	9340 548 67115	PDZ22B

7001	9322 108 21682	MC34067P
7002▲	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	4822 209 16406	TL431ACD
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7U01	9322 108 21682	MC34067P
7U02▲	9322 149 04682	TCET1102
7U04	3198 010 42310	BC847BW
7U05	9322 192 18687	STP15NK50ZFP
7U06	9322 192 18687	STP15NK50ZFP
7U07	3198 010 42320	BC857BW
7U08	3198 010 42320	BC857BW
7U09	3198 010 42320	BC857BW
7U10	4822 209 16406	TL431ACD
7U17	3198 010 42320	BC857BW
7U18	3198 010 42310	BC847BW
7U30	3198 010 42310	BC847BW

Small Signal Board [B]

Software (see Philips Service Website)

0801	Downloadable file
0802	Downloadable file
0811	Downloadable file
0812	Downloadable file
0821	Downloadable file
0822	Downloadable file

Various

1119	3139 267 22741	OTC Flash Assy
1151	2422 025 18749	Connector 3p m
1152	3139 147 19801	Tuner UV1318S/A IH -3
1154	4822 242 81436	Filter OFWK3953M
1154	9322 042 72682	Filter OFWK3953M
1156	2422 549 44341	38.9MHz OFWK9656M
1177	2422 025 18749	Connector 3p m
1202	2422 543 01414	Xtal 24.576MHz
1442	2422 025 19085	Connector 14p m
1801	2422 543 01133	Xtal 14.32MHz 20pF
1F01	2422 026 05647	Cinch 2P F 2L1
1F02	2422 033 00505	Socket HDMI 19p f
1F03	2422 033 00505	Socket HDMI 19p f
1G01	2422 025 19508	Combi 3X Cinch/SCART
1G02	2422 025 19509	Combi 2X Cinch/SCART
1J00	2422 025 10771	Connector 10p m
1J01	2422 025 10655	Connector 11p m
1J02	2422 025 10772	Connector 12p m
1J03	2422 025 10768	Connector 3p m
1J04	2422 025 10769	Connector 9p m
1J07	2422 086 11081	Fuse T3A 125V
1J08	2422 549 45333	Bead 120Ω at 100MHz
1K00	2422 025 08149	Connector 6p m
1K01	2422 025 10772	Connector 12p m
1K02	2422 025 10768	Connector 3p m
1K04	2422 025 10655	Connector 11p m
1L35	2422 543 01133	Xtal 14.32MHz 20pF
1N02	2422 540 00017	Reson. 60MHz CSTCW
1N03	2422 025 18779	Connector 4p m
1N04	2422 025 18779	Connector 4p m
1N05	8203 312 13540	Marking Switch
1N11	2422 549 45325	Bead 67Ω at 100MHz
1N12	2422 549 45325	Bead 67Ω at 100MHz
1N13	2422 549 45325	Bead 67Ω at 100MHz
1N14	2422 549 45325	Bead 67Ω at 100MHz
1N15	2422 549 45325	Bead 67Ω at 100MHz
1N16	2422 025 18772	Connector 30p m
1N17	2422 025 18427	Connector 31p f
1N19	2422 025 18734	Connector 11p m
8000	3139 131 07211	Cable 14p/180/14p
8322	3104 311 09221	Cable 10p/220/10p Wh
8337	3104 311 11551	Cable 11p/220/11p Wh
8J02	3139 131 05901	Cable 12p/280/12p
8J03	3104 311 10051	Cable 3p/100/3p Wh
8J03	3139 110 27651	Cable 3p/100/3p
8J04	3104 311 06811	Cable 9p/340/9p
8J04	3104 311 09251	Cable 9p/140/9p
8J04	3139 111 04551	Cable 9p/140/09p
8K01	3104 311 07951	Cable 11p/680/11p
8K01	3139 131 05901	Cable 12p/280/12p

⊣⊢		
2151	4822 124 12095	100µF 20% 16V
2152	5322 126 11583	10nF 10% 50V 0603
2153	5322 126 11583	10nF 10% 50V 0603
2154	4822 122 33761	22pF 5% 50V
2155	4822 122 33761	22pF 5% 50V
2156	5322 126 11583	10nF 10% 50V 0603
2157	3198 024 44730	47nF 50V 0603
2158	3198 030 82280	2.2µF 20% 50V
2159	5322 124 41945	22µF 20% 35V
2160	4822 124 12095	100µF 20% 16V
2203	4822 124 23002	10µF 16V
2204	2020 012 00029	330µF 6.3V
2206	2020 552 00183	2.2µF 10% 6.3V 0603
2207	2020 552 96718	220nF 10% 6.3V 0402
2208	4822 124 12084	1µF 20% 50V
2210	2020 552 96718	220nF 10% 6.3V 0402
2211	2020 552 96628	10nF 10% 16V 0402
2212	3198 035 71040	100nF 10% 16V 0402
2214	3198 035 03310	330pF 5% 50V 0402
2216	3198 035 03310	330pF 5% 50V 0402
2218	3198 035 71040	100nF 10% 16V 0402
2221	4822 124 12095	100µF 20% 16V
2222	2020 012 00029	330µF 6.3V
2223	2238 869 15101	100pF 5% 50V 0402
2225	2020 552 96618	1nF 10% 50V 0402
2226	3198 035 03320	3.3nF 5% 50V 0402
2227	2020 552 96618	1nF 10% 50V 0402
2228	3198 035 71040	100nF 10% 16V 0402
2230	3198 035 71040	100nF 10% 16V 0402
2231	2020 552 96718	220nF 10% 6.3V 0402
2232	3198 035 71040	100nF 10% 16V 0402
2233	4822 124 23002	10µF 16V
2234	2020 552 96718	220nF 10% 6.3V 0402
2235	2020 552 96718	220nF 10% 6.3V 0402
2236	4822 126 14076	220nF +80/-20% 25V
2237	2020 552 96718	220nF 10% 6.3V 0402
2238	2020 552 96718	220nF 10% 6.3V 0402
2239	3198 035 71040	100nF 10% 16V 0402
2240	2020 552 96718	220nF 10% 6.3V 0402
2241	2020 552 96718	220nF 10% 6.3V 0402
2242	3198 035 71040	100nF 10% 16V 0402
2243	4822 124 23002	10µF 16V
2244	3198 035 71040	100nF 10% 16V 0402
2245	3198 035 71040	100nF 10% 16V 0402
2246	3198 035 71040	100nF 10% 16V 0402
2247	3198 030 82280	2.2µF 20% 50V
2250	2020 552 96618	1nF 10% 50V 0402
2251	2020 552 96656	10µF 20% 25V 1210
2252	3198 035 71040	100nF 10% 16V 0402
2253	3198 035 71040	100nF 10% 16V 0402
2254	3198 035 71040	100nF 10% 16V 0402
2255	3198 035 71040	100nF 10% 16V 0402
2256	4822 124 23002	10µF 16V
2257	3198 035 71040	100nF 10% 16V 0402
2258	2020 552 96637	10µF 10% 6.3V 0805
2259	3198 035 71040	100nF 10% 16V 0402
2260	2020 552 96637	10µF 10% 6.3V 0805
2262	4822 124 23002	10µF 16V
2263	3198 035 26820	6.8nF 10% 16V 0402
2264	2022 020 00762	0.47µ 20% 50V
2264	3198 017 44740	470nF 10V 0603
2264	3198 030 84770	0.47µ 20% 50V
2265	3198 017 41050	1µF 10V 0603
2265	4822 124 12084	1µF 20% 50V
2266	3198 035 71040	100nF 10% 16V 0402
2267	2020 552 96718	220nF 10% 6.3V 0402
2268	3198 030 82280	2.2µF 20% 50V
2269	2022 031 00373	470µF 20% 16V
2270	3198 035 71040	100nF 10% 16V 0402
2271	4822 124 12095	100µF 20% 16V
2272	3198 035 71040	100nF 10% 16V 0402
2273	2020 552 96718	220nF 10% 6.3V 0402
2274	3198 017 31540	150nF 10V 0603
2277	3198 035 71040	100nF 10% 16V 0402
2280	2020 552 00005	4.7µF 10% 6.3V 0603
2280	2020 552 00027	4.7µF 2% 6.3V 0603
2281	2020 552 00005	4.7µF 10% 6.3V 0603
2281	2020 552 00027	4.7µF 2% 6.3V 0603
2285	3198 035 71040	100nF 10% 16V 0402
2286	3198 035 71040	100nF 10% 16V 0402
2289	4822 051 30151	150Ω 5% 0.062W
2290	2020 552 96305	4.7µF 20-80% 10V
2290	2222 240 59872	4.7µF 5% 10V 0805
2291	3198 035 71040	100nF 10% 16V 0402
2449	3198 035 71040	100nF 10% 16V 0402
2603	2020 552 96834	1µF 20% 6.3V 0402
2604	3198 035 04710	470pF 50V 0402
2605	2020 552 96834	1µF 20% 6.3V 0402
2608	2020 552 96834	1µF 20% 6.3V 0402
2609	3198 035 04710	470pF 50V 0402
2610	2020 552 96834	1µF 20% 6.3V 0402
2611	4822 124 12095	100µF 20% 16V
2612	3198 017 41050	1µF 10V 0603
2613	3198 017 41050	1µF 10V 0603
2614	3198 035 71040	100nF 10% 16V 0402
2615	2022 031 00373	470µF 20% 16V
2616	2020 552 00183	2.2µF 10% 6.3V 0603
2617	2020 552 00183	2.2µF 10% 6.3V 0603
2618	2022 031 00373	470µF 20% 16V
2619	4822 124 11131	47µF 6.3V
2701	2238 869 15101	100pF 5% 50V 0402
2702	3198 035 71040	100nF 10% 16V 0402
2704	4822 124 23002	10µF 16V
2706	4822 124 23002	10µF 16V
2709	4822 124 80151	47µF 16V
2710	2020 552 00211	22µF 10% 16V 1210
2710	2020 552 00231	22µF 20%
2711	2020 552 00211	22µF 10% 16V 1210
2711	2020 552 00231	22µF 20%
2716	2020 012 00028	470µF 20% 16V
2716	2022 031 00371	470µF 20% 16V
2717	2020 552 96628	10nF 10% 16V 0402
2717	3198 035 71040	100nF 10% 16V 0402
2718	3198 035 71040	100nF 10% 16V 0402
2719	3198 035 71040	100nF 10% 16V 0402
2720	2020 552 96618	1nF 10% 50V 0402
2721	3198 035 71040	100nF 10% 16V 0402
2722	2020 552 96618	1nF 10% 50V 0402
2723	3198 035 74730	47nF 5% 16V 0402
2724	3198 016 31020	1nF 25V 0603
2725	3198 016 31020	1nF 25V 0603
2726	2022 031 00373	470µF 20% 16V
2727	2020 552 96628	10nF 10% 16V 0402
2730	2020 552 00211	22µF 10% 16V 1210
2730	2020 552 00231	22µF 20%
2731	2022 031 00373	470µF 20% 16V
2733	3198 035 02210	220pF 5% 50V 0402
2734	2020 552 96455	22nF 10% 16V 0402
2734	2238 787 15641	22nF 5% 16V 0402
2734	2238 787 16641	22nF 10% 16V 0402
2735	3198 035 06810	680pF 5% 50V 0402
2736	2022 031 00308	22µF 20% 35V
2737	2022 031 00373	470µF 20% 16V
2738	4822 124 80151	47µF 16V
2739	4822 124 80151	47µF 16V
2741	4822 126 13879	220nF +80-20% 16V
2751	2020 552 96305	4.7µF 20-80% 10V
2751	2222 240 59872	4.7µF 5% 10V 0805
2752	4822 124 80151	47µF 16V
2758	2022 031 00373	470µF 20% 16V
2762	5322 124 41945	22µF 20% 35V
2800	2020 021 91557	100µF 20% 16V
2801	3198 035 71040	100nF 10% 16V 0402
2802	3198 035 71040	100nF 10% 16V 0402
2803	3198 035 71040	100nF 10% 16V 0402
2804	3198 035 71040	100nF 10% 16V 0402
2805	3198 035 71040	100nF 10% 16V 0402
2806	3198 035 71040	100nF 10% 16V 0402
2807	3198 035 71040	100nF 10% 16V 0402
2808	3198 035 71040	100nF 10% 16V 0402
2809	3198 035 71040	100nF 10% 16V 0402
2810	3198 035 71040	100nF 10% 16V 0402
2811	3198 035 71040	100nF 10% 16V 0402
2812	3198 035 71040	100nF 10% 16V 0402
2813	3198 035 71040	100nF 10% 16V 0402
2814	3198 035 71040	100nF 10% 16V 0402
2815	5322 124 41945	22µF 20% 35V
2816	3198 035 71040	100nF 10% 16V 0402
2817	3198 035 71040	100nF 10% 16V 0402
2818	3198 035 71040	100nF 10% 16V 0402
2819	3198 035 71040	100nF 10% 16V 0402
2820	3198 035 71040	100nF 10% 16V 0402
2821	3198 035 71040	100nF 10% 16V 0402
2822	3198 035 71040	100nF 10% 16V 0402
2823	4822 126 14519	22pF 5% 50V 0402
2824	4822 126 14519	22pF 5% 50V 0402
2900	3198 035 71040	100nF 10% 16V 0402
2901	2020 552 96618	1nF 10% 50V 0402
2902	2020 021 91557	100µF 20% 16V
2903	3198 035 71040	100nF 10% 16V 0402
2904	4822 124 80151	47µF 16V
2905	2020 021 91557	100µF 20% 16V
2906	3198 035 71040	100nF 10% 16V 0402
2907	3198 035 71040	100nF 10% 16V 0402
2908	3198 035 71040	100nF 10% 16V 0402
2909	3198 035 71040	100nF 10% 16V 0402
2910	3198 035 71040	100nF 10% 16V 0402
2911	3198 035 71040	100nF 10% 16V 0402
2912	3198 035 71040	100nF 10% 16V 0402
2913	3198 035 71040	100nF 10% 16V 0402
2914	3198 035 71040	100nF 10% 16V 0402
2915	3198 035 71040	100nF 10% 16V 0402
2916	3198 035 71040	100nF 10% 16V 0402
2917	2020 021 91557	100µF 20% 16V
2918	3198 035 71040	100nF 10% 16V 0402
2919	3198 035 71040	100nF 10% 16V 0402
2920	3198 035 71040	100nF 10% 16V 0402
2921	3198 035 71040	100nF 10% 16V 0402
2922	3198 035 71040	100nF 10% 16V 0402
2923	3198 035 71040	100nF 10% 16V 0402
2924	3198 035 71040	100nF 10% 16V 0402
2925	3198 035 71040	100nF 10% 16V 0402
2926	3198 035 71040	100nF 10% 16V 0402
2927	3198 035 71040	100nF 10% 16V 0402
2928	3198 035 71040	100nF 10% 16V 0402
2929	3198 035 71040	100nF 10% 16V 0402
2930	3198 035 71040	100nF 10% 16V 0402
2931	3198 035 71040	100nF 10% 16V 0402
2932	3198 035 71040	100nF 10% 16V 0402
2933	3198 035 71040	100nF 10% 16V 0402
2934	4822 124 80151	47µF 16V
2935	3198 035 71040	100nF 10% 16V 0402
2936	3198 035 71040	100nF 10% 16V 0402
2937	3198 035 71040	100nF 10% 16V 0402
2938	3198 035 71040	100nF 10% 16V 0402
2939	3198 035 71040	100nF 10% 16V 0402
2940	4822 124 80151	47µF 16V
2941	3198 035 71040	100nF 10% 16V 0402
2942	3198 035 71040	100nF 10% 16V 0402
2945	5322 124 41945	22µF 20% 35V
2946	3198 035 71040	100nF 10% 16V 0402
2947	3198 035 71040	100nF 10% 16V 0402
2948	3198 035 71040	100nF 10% 16V 0402
2949	3198 035 71040	100nF 10% 16V 0402
2950	5322 124 41945	22µF 20% 35V
2951	3198 035 71040	100nF 10% 16V 0402
2952	3198 035 71040	100nF 10% 16V 0402
2953	3198 035 71040	100nF 10% 16V 0402
2954	3198 035 71040	100nF 10% 16V 0402
2955	5322 124 41945	22µF 20% 35V
2956	3198 035 71040	100nF 10% 16V 0402
2957	3198 035 71040	100nF 10% 16V 0402
2958	3198 035 71040	100nF 10% 16V 0402
2959	3198 035 71040	100nF 10% 16V 0402
2960	2020 021 91557	100µF 20% 16V
2A12	2020 552 96628	10nF 10% 16V 0402
2A13	3198 035 71040	100nF 10% 16V 0402
2B01	4822 124 80151	47µF 16V
2B02	4822 124 11131	47µF 6.3V
2B03	3198 035 71040	100nF 10% 16V 0402
2B04	3198 035 71040	100nF 10% 16V 0402
2B05	3198 035 71040	100nF 10% 16V 0402
2B06	3198 035 71040	100nF 10% 16V 0402
2B07	3198 035 71040	100nF 10% 16V 0402
2B08	3198 035 71040	100nF 10% 16V 0402
2B09	3198 035 71040	100nF 10% 16V 0402
2B10	3198 035 71040	100nF 10% 16V 0402
2B11	3198 035 71040	100nF 10% 16V 0402
2B12	3198 035 71040	100nF 10% 16V 0402
2B13	3198 035 71040	100nF 10% 16V 0402
2B14	3198 035 71040	100nF 10% 16V 0402
2B15	3198 035 71040	100nF 10% 16V 0402
2B16	3198 035 71040	100nF 10% 16V 0402
2B17	3198 035 71040	100nF 10% 16V 0402
2B18	5322 124 41945	22µF 20% 35V
2C00	3198 035 71040	100nF 10% 16V 0402
2C01	4822 124 23002	10µF 16V
2C02	3198 035 71040	100nF 10% 16V 0402
2C03	3198 035 71040	100nF 10% 16V 0402
2C04	2020 552 96628	10nF 10% 16V 0402
2C05	2020 552 96628	10nF 10% 16V 0402
2D00	3198 035 71040	100nF 10% 16V 0402
2D01	3198 035 71040	100nF 10% 16V 0402
2D02	4822 124 23237	22µF 6.3V
2D08	2020 552 96618	1nF 10% 50V 0402
2D09	2020 552 96618	1nF 10% 50V 0402
2D10	2020 552 96618	1nF 10% 50V 0402
2D11	2020 552 96618	1nF 10% 50V 0402
2D12	2020 552 96618	1nF 10% 50V 0402
2D13	2020 552 96618	1nF 10% 50V 0402
2D14	2020 552 96618	1nF 10% 50V 0402
2D15	2020 552 96618	1nF 10% 50V 0402
2D16	2020 552 96618	1nF 10% 50V 0402
2D17	2020 552 96618	1nF 10% 50V 0402
2D18	2020 552 96618	1nF 10% 50V 0402
2D21	2020 552 96618	1nF 10% 50V 0402
2D22	3198 035 71040	100nF 10% 16V 0402
2D23	2020 552 96618	1nF 10% 50V 0402
2D24	2020 552 96618	1nF 10% 50V 0402
2D25	3198 035 71040	100nF 10% 16V 0402
2D29	2020 552 96618	1nF 10% 50V 0402
2D30	2020 552 96618	1nF 10% 50V 0402
2D31	2020 552 96618	1nF 10% 50V 0402
2D32	2020 552 96618	1nF 10% 50V 0402
2D34	2020 552 96618	1nF 10% 50V 0402
2D35	2020 552 96618	1nF 10% 50V 0402
2D36	2020 552 96618	1nF 10% 50V 0402
2D37	2020 552 96618	1nF 10% 50V 0402

2D38	2020 552 96618	1nF 10% 50V 0402
2D39	2020 552 96618	1nF 10% 50V 0402
2D42	4822 124 23237	22µF 6.3V
2D43	4822 124 23237	22µF 6.3V
2D44	4822 124 23237	22µF 6.3V
2D45	3198 035 71040	100nF 10% 16V 0402
2D46	4822 124 11131	47µF 6.3V
2D47	4822 124 23237	22µF 6.3V
2D48	4822 124 23237	22µF 6.3V
2D49	2020 552 96618	1nF 10% 50V 0402
2D50	4822 124 11131	47µF 6.3V
2D51	3198 035 71040	100nF 10% 16V 0402
2D52	4822 124 11131	47µF 6.3V
2D53	3198 035 71040	100nF 10% 16V 0402
2D54	4822 124 11131	47µF 6.3V
2D55	3198 035 71040	100nF 10% 16V 0402
2D56	4822 124 23002	10µF 16V
2D57	4822 124 23002	10µF 16V
2D58	2020 552 96628	10nF 10% 16V 0402
2D59	2020 552 96628	10nF 10% 16V 0402
2E00	2020 552 00005	4.7µF 10% 6.3V 0603
2E00	2020 552 00027	4.7µF 2% 6.3V 0603
2E01	2020 552 00005	4.7µF 10% 6.3V 0603
2E01	2020 552 00027	4.7µF 2% 6.3V 0603
2E02	2020 552 00005	4.7µF 10% 6.3V 0603
2E02	2020 552 00027	4.7µF 2% 6.3V 0603
2E03	3198 035 71040	100nF 10% 16V 0402
2E04	2020 552 00005	4.7µF 10% 6.3V 0603
2E04	2020 552 00027	4.7µF 2% 6.3V 0603
2E05	2020 552 00005	4.7µF 10% 6.3V 0603
2E05	2020 552 00027	4.7µF 2% 6.3V 0603
2E06	2020 552 00005	4.7µF 10% 6.3V 0603
2E06	2020 552 00027	4.7µF 2% 6.3V 0603
2E07	4822 126 14324	33pF 5% 50V 0402
2E08	2020 552 00005	4.7µF 10% 6.3V 0603
2E08	2020 552 00027	4.7µF 2% 6.3V 0603
2E09	4822 126 14324	33pF 5% 50V 0402
2E10	2020 552 00005	4.7µF 10% 6.3V 0603
2E10	2020 552 00027	4.7µF 2% 6.3V 0603
2E11	4822 126 14324	33pF 5% 50V 0402
2E12	2020 552 00005	4.7µF 10% 6.3V 0603
2E12	2020 552 00027	4.7µF 2% 6.3V 0603
2E13	3198 017 41050	1µF 10V 0603
2E14	4822 126 14324	33pF 5% 50V 0402
2E16	3198 035 71040	100nF 10% 16V 0402
2E17	3198 035 71040	100nF 10% 16V 0402
2E18	3198 035 71040	100nF 10% 16V 0402
2E19	3198 035 71040	100nF 10% 16V 0402
2E20	4822 124 11131	47µF 6.3V
2E24	3198 035 71040	100nF 10% 16V 0402
2E25	3198 035 71040	100nF 10% 16V 0402
2E26	3198 035 71040	100nF 10% 16V 0402
2E27	3198 035 71040	100nF 10% 16V 0402
2E28	3198 035 71040	100nF 10% 16V 0402
2E29	3198 035 71040	100nF 10% 16V 0402
2E30	3198 035 71040	100nF 10% 16V 0402
2E31	3198 035 71040	100nF 10% 16V 0402
2E32	3198 035 71040	100nF 10% 16V 0402
2E33	2020 552 00005	4.7µF 10% 6.3V 0603
2E33	2020 552 00027	4.7µF 2% 6.3V 0603
2E34	2020 552 00005	4.7µF 10% 6.3V 0603
2E34	2020 552 00027	4.7µF 2% 6.3V 0603
2E35	2020 552 00005	4.7µF 10% 6.3V 0603
2E35	2020 552 00027	4.7µF 2% 6.3V 0603
2E36	3198 035 71040	100nF 10% 16V 0402
2E37	2020 552 96703	180pF 5% 50V 0402
2F01	4822 124 23002	10µF 16V
2F02	2238 586 59812	100nF 20% 50V 0603
2F03	2020 552 00005	4.7µF 10% 6.3V 0603
2F03	2020 552 00027	4.7µF 2% 6.3V 0603
2F04	2020 552 00005	4.7µF 10% 6.3V 0603
2F04	2020 552 00027	4.7µF 2% 6.3V 0603
2F13	4822 126 14508	180pF 5% 50V 0603
2F14	4822 126 14508	180pF 5% 50V 0603
2F15	2020 552 00183	2.2µF 10% 6.3V 0603
2F16	2020 552 00183	2.2µF 10% 6.3V 0603
2G03	4822 126 14241	330pF 0603 50V
2G04	4822 126 14241	330pF 0603 50V
2G05	4822 124 23002	10µF 16V
2G06	4822 124 23002	10µF 16V
2G09	4822 126 14508	180pF 5% 50V 0603
2G10	4822 126 14508	180pF 5% 50V 0603
2G11	2020 552 00183	2.2µF 10% 6.3V 0603
2G12	2020 552 00183	2.2µF 10% 6.3V 0603
2G16	4822 126 14508	180pF 5% 50V 0603
2G17	4822 126 14508	180pF 5% 50V 0603
2G20	4822 126 14241	330pF 0603 50V
2G21	4822 126 14241	330pF 0603 50V
2G22	4822 124 23002	10µF 16V
2G23	4822 124 23002	10µF 16V
2G24	2020 552 00183	2.2µF 10% 6.3V 0603
2G25	2020 552 00183	2.2µF 10% 6.3V 0603
2G28	4822 126 14508	180pF 5% 50V 0603
2G43	2020 552 00005	4.7µF 10% 6.3V 0603
2G43	2020 552 00027	4.7µF 2% 6.3V 0603
2G47	3198 035 71040	100nF 10% 16V 0402
2G54	2020 552 00183	2.2µF 10% 6.3V 0603
2G55	2020 552 00005	4.7µF 10% 6.3V 0603
2G55	2020 552 00027	4.7µF 2% 6.3V 0603
2G56	2020 552 00005	4.7µF 10% 6.3V 0603
2G56	2020 552 00027	4.7µF 2% 6.3V 0603
2G57	2020 552 00005	4.7µF 10% 6.3V 0603
2G57	2020 552 00027	4.7µF 2% 6.3V 0603
2G58	3198 035 71040	100nF 10% 16V 0402
2G60	2020 552 00183	2.2µF 10% 6.3V 0603
2G61	3198 017 42240	220nF 16V Y5V 0603
2G68	4822 126 14508	180pF 5% 50V 0603
2G69	4822 124 23002	10µF 16V
2G70	2020 552 96637	10µF 10% 6.3V 0805
2G71	2020 552 96637	10µF 10% 6.3V 0805
2J02	2020 552 96618	1nF 10% 50V 0402
2J03	2020 552 96618	1nF 10% 50V 0402
2J17	2020 552 96618	1nF 10% 50V 0402
2J18	2238 869 15101	100pF 5% 50V 0402
2J19	2238 869 15101	100pF 5% 50V 0402
2J21	2238 869 15101	100pF 5% 50V 0402
2J22	2238 869 15101	100pF 5% 50V 0402
2J23	2238 869 15101	100pF 5% 50V 0402
2J26	2238 869 15101	100pF 5% 50V 0402
2J27	2238 869 15101	100pF 5% 50V 0402
2J28	2238 869 15101	100pF 5% 50V 0402
2J29	2238 869 15101	100pF 5% 50V 0402
2J30	2020 552 96618	1nF 10% 50V 0402
2J31	2238 869 15101	100pF 5% 50V 0402
2J35	2020 552 96618	1nF 10% 50V 0402
2J35	2020 552 96673	1µF 10% 6.3V X5R 0603
2J35	2020 552 96834	1µF 20% 6.3V 0402
2J35	2022 552 05614	1µF 10% 6V3 0603
2J36	2020 552 96618	1nF 10% 50V 0402
2K00	2020 552 96618	1nF 10% 50V 0402
2K01	2020 552 96618	1nF 10% 50V 0402
2K02	2238 869 15109	10pF 5% 50V 0402
2K03	2238 869 15109	10pF 5% 50V 0402
2K04	2238 869 15109	10pF 5% 50V 0402
2K05	2238 869 15109	10pF 5% 50V 0402
2K06	2238 869 15101	100pF 5% 50V 0402
2K07	2238 869 15101	100pF 5% 50V 0402
2K08	2020 552 00183	2.2µF 10% 6.3V 0603
2K10	2238 869 15101	100pF 5% 50V 0402
2K11	2238 869 15101	100pF 5% 50V 0402
2K12	2020 552 00183	2.2µF 10% 6.3V 0603
2K13	2238 869 15101	100pF 5% 50V 0402
2K14	2238 869 15101	100pF 5% 50V 0402
2K15	2238 869 15101	100pF 5% 50V 0402
2K16	2238 869 15101	100pF 5% 50V 0402
2K17	2238 869 15101	100pF 5% 50V 0402
2K18	2238 869 15101	100pF 5% 50V 0402
2K19	2020 552 96618	1nF 10% 50V 0402
2K20	2020 552 96618	1nF 10% 50V 0402
2K21	2238 869 15101	100pF 5% 50V 0402
2K22	2238 869 15101	100pF 5% 50V 0402
2K23	2238 869 15101	100pF 5% 50V 0402
2K24	2238 869 15101	100pF 5% 50V 0402
2K25	2238 869 15101	100pF 5% 50V 0402
2K26	2238 869 15101	100pF 5% 50V 0402
2K27	2238 869 15101	100pF 5% 50V 0402
2K28	2238 869 15101	100pF 5% 50V 0402
2L01	4822 124 23002	10µF 16V
2L02	4822 124 23002	10µF 16V
2L03	2020 552 96834	1µF 20% 6.3V 0402
2L04	2020 552 96834	1µF 20% 6.3V 0402
2L05	2020 552 96834	1µF 20% 6.3V 0402
2L06	2020 552 96834	1µF 20% 6.3V 0402
2L07	2020 552 96834	1µF 20% 6.3V 0402
2L08	2020 552 96834	1µF 20% 6.3V 0402
2L09	2020 552 96834	1µF 20% 6.3V 0402
2L10	2020 552 96668	560P 10% 50V
2L11	4822 124 23002	10µF 16V
2L12	2020 552 96834	1µF 20% 6.3V 0402
2L13	2020 552 96834	1µF 20% 6.3V 0402
2L14	2020 552 96834	1µF 20% 6.3V 0402
2L15	2020 552 96834	1µF 20% 6.3V 0402
2L16	2020 552 96834	1µF 20% 6.3V 0402
2L17	2020 552 96637	10µF 10% 6.3V 0805
2L18	2020 552 96834	1µF 20% 6.3V 0402
2L19	2020 552 96637	10µF 10% 6.3V 0805
2L20	2020 552 96834	1µF 20% 6.3V 0402
2L21	4822 124 12095	100µF 20% 16V
2L22	2020 552 96834	1µF 20% 6.3V 0402
2L23	2020 552 96834	1µF 20% 6.3V 0402
2L24	2020 552 96834	1µF 20% 6.3V 0402
2L25	2020 552 96834	1µF 20% 6.3V 0402
2L26	2020 552 00005	4.7µF 10% 6.3V 0603
2L26	2020 552 00027	4.7µF 2% 6.3V 0603
2L27	2020 552 00005	4.7µF 10% 6.3V 0603
2L27	2020 552 00027	4.7µF 2% 6.3V 0603
2L30	4822 124 12095	100µF 20% 16V
2L31	3198 035 71040	100nF 10% 16V 0402
2L32	2020 552 96834	1µF 20% 6.3V 0402
2L33	3198 035 71040	100nF 10% 16V 0402
2L34	4822 124 12095	100µF 20% 16V
2L35	4822 126 14519	22pF 5% 50V 0402
2L36	4822 126 14519	22pF 5% 50V 0402
2L37	3198 035 71040	100nF 10% 16V 0402
2L51	3198 035 02210	220pF 5% 50V 0402
2L52	3198 035 04710	470pF 50V 0402
2L53	2020 552 96618	1nF 10% 50V 0402
2L61	3198 035 02210	220pF 5% 50V 0402
2L62	3198 035 04710	470pF 50V 0402
2L63	2020 552 96618	1nF 10% 50V 0402
2L71	2020 552 00005	4.7µF 10% 6.3V 0603
2L71	2020 552 00027	4.7µF 2% 6.3V 0603
2L72	3198 035 71040	100nF 10% 16V 0402
2L73	2020 552 96637	10µF 10% 6.3V 0805
2L74	2020 552 00231	22µF 20%
2L75	2020 552 00231	22µF 20%
2L92	3198 035 74730	47nF 5% 16V 0402
2L93	3198 035 74730	47nF 5% 16V 0402
2L94	2020 552 96618	1nF 10% 50V 0402
2L95	3198 035 74730	47nF 5% 16V 0402
2L95	4822 117 13605	Jumper 0402
2L96	3198 035 71040	100nF 10% 16V 0402
2L96	3198 035 74730	47nF 5% 16V 0402
2L97	3198 035 74730	47nF 5% 16V 0402
2L98	3198 035 74730	47nF 5% 16V 0402
2M00	3198 035 71040	100nF 10% 16V 0402
2M01	3198 035 71040	100nF 10% 16V 0402
2M02	3198 035 71040	100nF 10% 16V 0402
2M03	3198 035 71040	100nF 10% 16V 0402
2M04	3198 035 71040	100nF 10% 16V 0402
2M05	3198 035 71040	100nF 10% 16V 0402
2M06	3198 035 71040	100nF 10% 16V 0402
2M07	3198 035 71040	100nF 10% 16V 0402
2M08	3198 035 71040	100nF 10% 16V 0402
2M09	3198 035 71040	100nF 10% 16V 0402
2M10	3198 035 71040	100nF 10% 16V 0402
2M11	3198 035 71040	100nF 10% 16V 0402
2M12	3198 035 71040	100nF 10% 16V 0402
2M13	3198 035 71040	100nF 10% 16V 0402
2M14	3198 035 71040	100nF 10% 16V 0402
2M15	3198 035 71040	100nF 10% 16V 0402
2M16	3198 035 71040	100nF 10% 16V 0402
2M17	3198 035 71040	100nF 10% 16V 0402
2M18	3198 035 71040	100nF 10% 16V 0402
2M19	3198 035 71040	100nF 10% 16V 0402
2M20	3198 035 71040	100nF 10% 16V 0402
2M21	2020 552 00183	2.2µF 10% 6.3V 0603
2M22	3198 035 71040	100nF 10% 16V 0402
2M23	5322 124 41945	22µF 20% 35V
2M24	3198 035 71040	100nF 10% 16V 0402
2M25	3198 035 71040	100nF 10% 16V 0402
2M26	3198 035 71040	100nF 10% 16V 0402
2M27	3198 035 71040	100nF 10% 16V 0402
2M28	3198 035 71040	100nF 10% 16V 0402
2M29	3198 035 71040	100nF 10% 16V 0402
2M30	3198 035 71040	100nF 10% 16V 0402
2M31	5322 124 41945	22µF 20% 35V
2M32	5322 124 41945	22µF 20% 35V
2M56	5322 124 41945	22µF 20% 35V
2M65	3198 035 71040	100nF 10% 16V 0402
2M66	4822 124 12095	100µF 20% 16V
2M67	3198 035 71040	100nF 10% 16V 0402
2M68	4822 124 12095	100µF 20% 16V
2N01	3198 035 71040	100nF 10% 16V 0402
2N02	3198 035 71040	100nF 10% 16V 0402
2N03	3198 035 71040	100nF 10% 16V 0402
2N04	3198 035 71040	100nF 10% 16V 0402
2N05	3198 035 71040	100nF 10% 16V 0402
2N06	3198 035 71040	100nF 10% 16V 0402
2N07	3198 035 71040	100nF 10% 16V 0402
2N08	3198 035 71040	100nF 10% 16V 0402
2N09	3198 035 71040	100nF 10% 16V 0402
2N10	3198 035 71040	100nF 10% 16V 0402
2N11	3198 035 71040	100nF 10% 16V 0402
2N12	3198 035 71040	100nF 10% 16V 0402
2N13	3198 035 71040	100nF 10% 16V 0402
2N14	3198 035 71040	100nF 10% 16V 0402
2N15	3198 035 71040	100nF 10% 16V 0402
2N16	3198 035 71040	100nF 10% 16V 0402
2N17	4822 124 11131	47µF 6.3V
2N19	3198 035 71040	100nF 10% 16V 0402
2N20	3198 035 71040	100nF 10% 16V 0402
2N21	3198 035 71040	100nF 10% 16V 0402
2N22	3198 035 71040	100nF 10% 16V 0402
2N23	3198 035 71040	100nF 10% 16V 0402
2N24	4822 124 11131	47µF 6.3V
2N25	4822 124 11131	47µF 6.3V
2N26	3198 035 71040	100nF 10% 16V 0402
2N27	3198 035 71040	100nF 10% 16V 0402
2N28	2020 552 00005	4.7µF 10% 6.3V 0603
2N29	3198 035 71040	100nF 10% 16V 0402
2N30	3198 035 71040	100nF 10% 16V 0402

2N31	3198 035 71040	100nF 10% 16V 0402
2N32	3198 035 71040	100nF 10% 16V 0402
2N33	3198 035 71040	100nF 10% 16V 0402
2N35	3198 035 71040	100nF 10% 16V 0402
2N36	3198 035 71040	100nF 10% 16V 0402
2N37	3198 035 71040	100nF 10% 16V 0402
2N38	3198 035 71040	100nF 10% 16V 0402
2N39	3198 035 71040	100nF 10% 16V 0402
2N40	3198 035 71040	100nF 10% 16V 0402
2N41	3198 035 71040	100nF 10% 16V 0402
2N42	3198 035 71040	100nF 10% 16V 0402
2N43	3198 035 71040	100nF 10% 16V 0402
2N44	3198 035 71040	100nF 10% 16V 0402
2N45	3198 035 71040	100nF 10% 16V 0402
2N46	3198 035 71040	100nF 10% 16V 0402
2N47	3198 035 71040	100nF 10% 16V 0402
2N48	3198 035 71040	100nF 10% 16V 0402
2N49	3198 035 71040	100nF 10% 16V 0402
2N50	3198 035 71040	100nF 10% 16V 0402
2N51	4822 124 11131	47µF 6.3V
2N54	3198 030 74780	4u7 20% 35V
2N55	3198 035 71040	100nF 10% 16V 0402
2N56	3198 035 71040	100nF 10% 16V 0402
2N57	3198 035 71040	100nF 10% 16V 0402
2N58	3198 035 71040	100nF 10% 16V 0402
2N59	3198 035 71040	100nF 10% 16V 0402
2N60	3198 035 71040	100nF 10% 16V 0402
2N61	3198 035 71040	100nF 10% 16V 0402
2N62	3198 035 71040	100nF 10% 16V 0402
2N63	3198 035 71040	100nF 10% 16V 0402
2N64	3198 035 71040	100nF 10% 16V 0402
2N65	3198 035 71040	100nF 10% 16V 0402
2N66	3198 035 71040	100nF 10% 16V 0402
2N67	3198 035 71040	100nF 10% 16V 0402
2N68	4822 124 12095	100µF 20% 16V
2N69	2238 869 15101	100pF 5% 50V 0402
2N75	3198 035 71040	100nF 10% 16V 0402
2N76	2020 552 00005	4.7µF 10% 6.3V 0603
2N80	2238 869 15109	10pF 5% 50V 0402
2N81	2238 869 15109	10pF 5% 50V 0402
2N82	2238 869 15109	10pF 5% 50V 0402
2N83	2238 869 15109	10pF 5% 50V 0402
2N84	2238 869 15109	10pF 5% 50V 0402
2N85	2238 869 15109	10pF 5% 50V 0402
2N86	2238 869 15109	10pF 5% 50V 0402
2N87	2238 869 15109	10pF 5% 50V 0402
2N88	2238 869 15109	10pF 5% 50V 0402
2N89	2238 869 15109	10pF 5% 50V 0402

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3151	4822 117 13545	100Ω 1% 0402
3152	4822 117 13545	100Ω 1% 0402
3153	4822 117 13606	10kΩ 5% 0.01W 0402
3154	4822 051 30103	10kΩ 5% 0.062W
3155	4822 117 13548	1kΩ 5% 0402
3157	4822 051 30682	6.8Ω 5% 0.062W
3158	4822 051 30222	2.2kΩ 5% 0.062W
3159	4822 051 30222	2.2kΩ 5% 0.062W
3161	4822 051 30223	22kΩ 5% 0.062W
3162	4822 051 30183	18kΩ 5% 0.062W
3163	4822 051 30101	100Ω 5% 0.062W
3164	4822 051 30101	100Ω 5% 0.062W
3170	4822 117 13606	10kΩ 5% 0.01W 0402
3171	4822 117 13606	10kΩ 5% 0.01W 0402
3172	4822 117 13545	100Ω 1% 0402
3173	4822 117 13545	100Ω 1% 0402
3207	3198 031 06810	680Ω 5% 0.01W 0402
3208	4822 117 13545	100Ω 1% 0402
3209	4822 117 13545	100Ω 1% 0402
3210	4822 117 13545	100Ω 1% 0402
3211	4822 117 13545	100Ω 1% 0402
3212	4822 117 13545	100Ω 1% 0402
3213	4822 117 13545	100Ω 1% 0402
3214	3198 031 06810	680Ω 5% 0.01W 0402
3215	3198 031 02710	270Ω 5% 0.1W 0402
3216	4822 117 13597	330Ω 5% 0.01W 0402
3217	4822 117 13548	1kΩ 5% 0402
3218	4822 117 11297	100kΩ 5% 0.1W
3219	4822 117 13545	100Ω 1% 0402
3220	3198 031 04730	47Ω 5% 0402
3222	4822 117 13545	100Ω 1% 0402
3223	3198 031 01090	10Ω 5% 0.01W 0402
3224	3198 031 04720	4.7kΩ 5% 0402
3225	3198 031 04720	4.7kΩ 5% 0402
3226	4822 117 13545	100Ω 1% 0402
3227	4822 117 13545	100Ω 1% 0402
3229	3198 031 04720	4.7kΩ 5% 0402
3230	4822 117 13606	10kΩ 5% 0.01W 0402
3231	4822 117 13602	2.2kΩ 5% 0.01W 0402
3232	3198 031 03320	3.3kΩ 5% 0402
3233	3198 031 03320	3.3kΩ 5% 0402
3234	3198 031 04720	4.7kΩ 5% 0402
3235	3198 031 04720	4.7kΩ 5% 0402
3236	3198 031 04720	4.7kΩ 5% 0402
3238	4822 117 13545	100Ω 1% 0402
3239	4822 117 13545	100Ω 1% 0402
3240	2322 704 61002	1kΩ 1%
3241	4822 117 13545	100Ω 1% 0402
3242	4822 117 13606	10kΩ 5% 0.01W 0402
3243	3198 031 04720	4.7kΩ 5% 0402
3245	3198 031 02240	220kΩ 5% 0.1W 0402
3246	3198 031 04720	4.7kΩ 5% 0402
3247	4822 117 13545	100Ω 1% 0402
3248	4822 117 13545	100Ω 1% 0402
3249	3198 031 04720	4.7kΩ 5% 0402
3250	4822 117 13545	100Ω 1% 0402
3251	4822 117 13545	100Ω 1% 0402
3252	4822 117 13545	100Ω 1% 0402
3253	4822 117 13545	100Ω 1% 0402
3255	4822 117 13605	Jumper 0402
3256	4822 117 13605	Jumper 0402
3257	4822 117 13605	Jumper 0402
3258	4822 117 13548	1kΩ 5% 0402
3259	4822 117 13548	1kΩ 5% 0402
3260	4822 117 13548	1kΩ 5% 0402
3262	4822 117 13601	22kΩ 5% 0402
3263	2322 702 70398	3.9Ω 5% 0603
3264	4822 117 13601	22kΩ 5% 0402
3265	2322 702 70398	3.9Ω 5% 0603
3266	3198 031 05620	5.6kΩ 5% 0.01W 0402
3267	3198 031 05620	5.6kΩ 5% 0.01W 0402
3268	4822 117 13545	100Ω 1% 0402
3272	3198 031 04720	4.7kΩ 5% 0402
3273	4822 117 13548	1kΩ 5% 0402
3274	3198 031 03910	390Ω 1% 0402
3275	4822 117 13545	100Ω 1% 0402
3276	3198 031 07590	75Ω 5% 0402
3277	3198 031 01520	1.2kΩ 5% 0.01W 0402
3280	4822 117 11151	1Ω 5%
3281	3198 031 03930	39kΩ 5% 0402
3282	4822 051 30151	150Ω 5% 0.062W
3285	4822 117 13605	Jumper 0402
3286	4822 117 13545	100Ω 1% 0402
3292	3198 031 01230	12kΩ 5% 0402
3292	3198 031 02730	27kΩ 5% 0402
3294	3198 031 04730	47Ω 5% 0402
3295	4822 117 11297	100kΩ 5% 0.1W
3297	3198 031 03320	3.3kΩ 5% 0402
3298	3198 031 03320	3.3kΩ 5% 0402
3299	3198 031 04720	4.7kΩ 5% 0402
3431	4822 117 13548	1kΩ 5% 0402
3451	3198 031 04720	4.7kΩ 5% 0402
3453	4822 117 13545	100Ω 1% 0402
3454	4822 117 13545	100Ω 1% 0402
3455	4822 117 13545	100Ω 1% 0402
3456	4822 117 13545	100Ω 1% 0402
3458	4822 117 13545	100Ω 1% 0402
3459	4822 117 13545	100Ω 1% 0402
3461	4822 117 13545	100Ω 1% 0402
3462	4822 117 13545	100Ω 1% 0402
3604	4822 117 13601	22kΩ 5% 0402
3605	4822 117 13601	22kΩ 5% 0402
3609	4822 117 13601	22kΩ 5% 0402
3610	4822 117 11297	100kΩ 5% 0.1W
3611	4822 117 11297	100kΩ 5% 0.1W
3612	4822 117 13601	22kΩ 5% 0402
3615	4822 117 13606	10kΩ 5% 0.01W 0402
3616	4822 117 13548	1kΩ 5% 0402
3617	4822 117 13548	1kΩ 5% 0402
3618	4822 117 13601	22kΩ 5% 0402
3619	4822 117 13606	10kΩ 5% 0.01W 0402
3620	4822 117 13606	10kΩ 5% 0.01W 0402
3623	3198 031 04730	47Ω 5% 0402
3625	3198 031 03320	3.3kΩ 5% 0402
3627	4822 117 13601	22kΩ 5% 0402
3628	4822 117 13606	10kΩ 5% 0.01W 0402
3629	4822 117 13601	22kΩ 5% 0402
3630	4822 117 13597	330Ω 5% 0.01W 0402
3630	4822 117 13602	2.2kΩ 5% 0.01W 0402
3631	4822 117 13597	330Ω 5% 0.01W 0402
3631	4822 117 13602	2.2kΩ 5% 0.01W 0402
3632	2322 705 70569	56Ω 5% 0402
3633	2322 705 70569	56Ω 5% 0402
3701	4822 117 13606	10kΩ 5% 0.01W 0402
3702	4822 117 13606	10kΩ 5% 0.01W 0402
3709	3198 031 06820	6.8kΩ 5% 0.01W 0402
3718	5322 117 11726	10Ω 5%
3719	3198 031 01220	1.2kΩ 5% 0.01W 0402
3720	4822 117 13613	2.2Ω 5% 0603
3721	4822 117 13613	2.2Ω 5% 0603
3722	3198 031 02720	2.7kΩ 5% 0.01W 0402
3723	4822 051 20109	10Ω 5% 0.1W
3724	3198 031 01530	15kΩ 5% 0.01W 0402
3725	2322 704 63302	3.3kΩ 1% 0603
3726	3198 031 01220	1.2kΩ 5% 0.01W 0402
3727	2322 704 61002	1kΩ 1%
3732	2322 704 61002	1kΩ 1%
3733	2322 704 63302	3.3kΩ 1% 0603
3734	4822 117 13545	100Ω 1% 0402
3735	4822 117 13548	1kΩ 5% 0402
3736	3198 031 04720	4.7kΩ 5% 0402
3740	3198 031 01520	1.2kΩ 5% 0.01W 0402
3741	3198 031 01520	1.2kΩ 5% 0.01W 0402
3742	3198 031 01530	15kΩ 5% 0.01W 0402
3743	4822 117 13601	22kΩ 5% 0402
3750	4822 117 13601	22kΩ 5% 0402
3755	4822 117 13606	10kΩ 5% 0.01W 0402
3758	3198 031 01530	15kΩ 5% 0.01W 0402
3759	3198 031 01230	12kΩ 5% 0402
3800	4822 117 13606	10kΩ 5% 0.01W 0402
3801	2350 035 10229	4 x 22Ω 5% 1206
3802	2350 035 10229	4 x 22Ω 5% 1206
3803	2350 035 10229	4 x 22Ω 5% 1206
3804	2350 035 10229	4 x 22Ω 5% 1206
3805	2350 035 10229	4 x 22Ω 5% 1206
3806	2350 035 10229	4 x 22Ω 5% 1206
3807	2350 035 10229	4 x 22Ω 5% 1206
3808	2350 035 10229	4 x 22Ω 5% 1206
3809	2350 035 10229	4 x 22Ω 5% 1206
3810	2350 035 10229	4 x 22Ω 5% 1206
3811	2350 035 10229	4 x 22Ω 5% 1206
3812	2350 035 10229	4 x 22Ω 5% 1206
3813	2350 035 10229	4 x 22Ω 5% 1206
3814	3198 031 02290	22Ω 5% 0.1W 0402
3815	3198 031 02290	22Ω 5% 0.1W 0402
3816	3198 031 02290	22Ω 5% 0.1W 0402
3817	4822 117 13606	10kΩ 5% 0.01W 0402
3818	4822 117 13606	10kΩ 5% 0.01W 0402
3820	4822 117 13606	10kΩ 5% 0.01W 0402
3822	4822 117 13545	100Ω 1% 0402
3824	3198 031 03320	3.3kΩ 5% 0402
3825	3198 031 11030	4 x 10kΩ 5% 1206
3826	3198 031 11030	4 x 10kΩ 5% 1206
3827	4822 117 13606	10kΩ 5% 0.01W 0402
3828	4822 117 13606	10kΩ 5% 0.01W 0402
3829	4822 117 13606	10kΩ 5% 0.01W 0402
3831	4822 117 13545	100Ω 1% 0402
3832	4822 117 13545	100Ω 1% 0402
3833	3198 031 01090	10Ω 5% 0.01W 0402
3834	4822 117 13606	10kΩ 5% 0.01W 0402
3835	4822 117 13606	10kΩ 5% 0.01W 0402
3836	4822 117 13606	10kΩ 5% 0.01W 0402
3837	4822 117 13606	10kΩ 5% 0.01W 0402
3838	4822 117 13606	10kΩ 5% 0.01W 0402
3839	4822 117 13545	100Ω 1% 0402
3840	3198 031 02290	22Ω 5% 0.1W 0402
3841	4822 117 13606	10kΩ 5% 0.01W 0402
3842	4822 117 13606	10kΩ 5% 0.01W 0402
3900	3198 031 03320	3.3kΩ 5% 0402
3901	4822 117 13606	10kΩ 5% 0.01W 0402
3902	4822 117 13606	10kΩ 5% 0.01W 0402
3903	4822 117 13545	100Ω 1% 0402
3904	4822 117 13545	100Ω 1% 0402
3A02	4822 117 13548	1kΩ 5% 0402
3A10	4822 117 13606	10kΩ 5% 0.01W 0402
3A11	4822 117 13606	10kΩ 5% 0.01W 0402
3A13	4822 117 13606	10kΩ 5% 0.01W 0402
3A14	3198 031 04720	4.7kΩ 5% 0402
3B01	4822 117 12706	10kΩ 1% 0.063W 0603
3B02	4822 117 12706	10kΩ 1% 0.063W 0603
3B03	2322 704 61501	150Ω 1% 0603
3C00	4822 117 13606	10kΩ 5% 0.01W 0402
3C01	4822 117 13606	10kΩ 5% 0.01W 0402
3C02	4822 117 13548	1kΩ 5% 0402
3C04	3198 031 11030	4 x 10kΩ 5% 1206
3C05	4822 117 13606	10kΩ 5% 0.01W 0402
3C06	3198 031 11030	4 x 10kΩ 5% 1206
3C07	3198 031 11030	4 x 10kΩ 5% 1206
3C08	3198 031 11030	4 x 10kΩ 5% 1206
3C09	3198 031 11030	4 x 10kΩ 5% 1206
3C10	3198 031 11030	4 x 10kΩ 5% 1206
3C16	3198 031 11030	4 x 10kΩ 5% 1206
3C17	4822 117 13606	10kΩ 5% 0.01W 0402
3C18	4822 117 13606	10kΩ 5% 0.01W 0402
3C22	4822 117 13548	1kΩ 5% 0402
3C23	3198 031 02240	220kΩ 5% 0.1W 0402
3D00	3198 031 04720	4.7kΩ 5% 0402
3D01	3198 031 04720	4.7kΩ 5% 0402
3D01	3198 031 04730	47Ω 5% 0402
3D02	3198 031 04720	4.7kΩ 5% 0402
3D03	3198 031 04720	4.7kΩ 5% 0402
3D03	3198 031 04730	47Ω 5% 0402
3D05	4822 117 13545	100Ω 1% 0402
3D06	4822 117 13545	100Ω 1% 0402
3D07	2322 704 61002	1kΩ 1%
3D07	4822 117 13548	1kΩ 5% 0402
3D08	2322 704 61002	1kΩ 1%
3D08	4822 117 13548	1kΩ 5% 0402
3D09	3198 031 04720	4.7kΩ 5% 0402
3D09	3198 031 04730	47Ω 5% 0402

3D10	3198 031 04720	4.7kΩ 5% 0402
3D10	3198 031 04730	47Ω 5% 0402
3D11	3198 031 05620	5.6kΩ 5% 0.01W 0402
3D15	3198 031 13390	4 x 33Ω 5% 1206
3D16	3198 031 13390	4 x 33Ω 5% 1206
3D17	3198 031 13390	4 x 33Ω 5% 1206
3D18	3198 021 31080	1Ω 5% 0603
3D19	3198 021 31080	1Ω 5% 0603
3D20	3198 031 13390	4 x 33Ω 5% 1206
3D21	3198 031 13390	4 x 33Ω 5% 1206
3D22	3198 031 03390	33Ω 1% 0402
3D23	3198 031 03390	33Ω 1% 0402
3D24	4822 117 13596	220Ω 5% 0.01W 0402
3D26	4822 117 13596	220Ω 5% 0.01W 0402
3D27	3198 031 03320	3.3kΩ 5% 0402
3E06	3198 031 04730	47Ω 5% 0402
3E07	3198 031 04730	47Ω 5% 0402
3E08	3198 031 04730	47Ω 5% 0402
3E09	3198 031 04730	47Ω 5% 0402
3E10	3198 031 04730	47Ω 5% 0402
3E11	3198 031 04730	47Ω 5% 0402
3E12	4822 117 13606	10kΩ 5% 0.01W 0402
3E13	4822 117 13597	330Ω 5% 0.01W 0402
3E13	4822 117 13605	Jumper 0402
3E14	4822 117 13597	330Ω 5% 0.01W 0402
3E14	4822 117 13605	Jumper 0402
3E15	4822 117 13597	330Ω 5% 0.01W 0402
3E15	4822 117 13605	Jumper 0402
3E16	4822 117 13597	330Ω 5% 0.01W 0402
3E17	4822 117 13597	330Ω 5% 0.01W 0402
3E18	4822 117 13597	330Ω 5% 0.01W 0402
3E19	2322 705 70569	56Ω 5% 0402
3E20	2322 705 70569	56Ω 5% 0402
3E21	2322 705 70569	56Ω 5% 0402
3E22	4822 117 13632	100kΩ 1% 0603 0.62W
3E23	3198 031 08210	820Ω 5% 0.5W
3E24	4822 117 13543	470Ω 5% 0402
3E24	4822 117 13597	330Ω 5% 0.01W 0402
3E25	2322 705 70399	39Ω 5% 0402
3E26	3198 031 02290	22Ω 5% 0.1W 0402
3E27	2322 705 70399	39Ω 5% 0402
3E28	3198 031 02290	22Ω 5% 0.1W 0402
3E29	2322 705 70399	39Ω 5% 0402
3E30	3198 031 02290	22Ω 5% 0.1W 0402
3E31	4822 117 13545	100Ω 1% 0402
3E33	4822 117 13545	100Ω 1% 0402
3E35	4822 117 13545	100Ω 1% 0402
3E36	4822 117 13545	100Ω 1% 0402
3E37	3198 031 02290	22Ω 5% 0.1W 0402
3E38	4822 117 13545	100Ω 1% 0402
3E39	4822 117 13545	100Ω 1% 0402
3E41	4822 117 13545	100Ω 1% 0402
3E42	4822 117 13545	100Ω 1% 0402
3E43	4822 117 13545	100Ω 1% 0402
3E44	4822 117 13545	100Ω 1% 0402
3E45	4822 117 13545	100Ω 1% 0402
3E46	3198 031 01090	10Ω 5% 0.01W 0402
3E49	3198 031 02290	22Ω 5% 0.1W 0402
3E50	3198 031 04730	47Ω 5% 0402
3E51	3198 031 04730	47Ω 5% 0402
3E52	3198 031 04730	47Ω 5% 0402
3E53	3198 031 04730	47Ω 5% 0402
3E54	3198 031 04730	47Ω 5% 0402
3E55	3198 031 04730	47Ω 5% 0402
3E57	3198 031 01090	10Ω 5% 0.01W 0402
3F01	4822 051 30102	1kΩ 5% 0.062W
3F02	4822 051 30222	2.2kΩ 5% 0.062W
3F03	4822 051 30102	1kΩ 5% 0.062W
3F04	4822 051 30222	2.2kΩ 5% 0.062W
3F05	4822 117 13603	33kΩ 5% 0402
3F06	4822 117 13603	33kΩ 5% 0402
3F07	4822 117 13603	33kΩ 5% 0402
3F08	4822 117 13603	33kΩ 5% 0402
3F09	4822 117 13603	33kΩ 5% 0402
3F10	4822 117 13603	33kΩ 5% 0402
3F11	4822 117 13603	33kΩ 5% 0402
3F12	4822 117 13603	33kΩ 5% 0402
3F13	4822 117 13603	33kΩ 5% 0402
3F14	4822 117 13603	33kΩ 5% 0402
3F15	4822 117 13603	33kΩ 5% 0402
3F16	4822 117 13603	33kΩ 5% 0402
3F17	4822 117 13603	33kΩ 5% 0402
3F18	4822 117 13603	33kΩ 5% 0402
3F19	4822 117 13603	33kΩ 5% 0402
3F20	4822 117 13603	33kΩ 5% 0402
3F24	4822 051 30103	10kΩ 5% 0.062W
3F25	4822 051 30103	10kΩ 5% 0.062W
3F26	4822 051 30153	15kΩ 5% 0.062W
3F27	4822 051 30153	15kΩ 5% 0.062W
3F28	4822 117 13545	100Ω 1% 0402
3F29	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F30	4822 117 13545	100Ω 1% 0402
3F31	4822 117 13602	2.2kΩ 5% 0.01W 0402
3G01	4822 051 30151	150Ω 5% 0.062W
3G02	4822 117 12891	220kΩ 1%
3G03	4822 117 12891	220kΩ 1%
3G04	4822 051 30103	10kΩ 5% 0.062W
3G05	4822 051 30103	10kΩ 5% 0.062W
3G06	4822 051 30101	100Ω 5% 0.062W
3G07	4822 051 30101	100Ω 5% 0.062W
3G08	4822 051 30101	100Ω 5% 0.062W
3G09	2122 118 06408	91Ω 5% 0603
3G10	2122 118 06408	91Ω 5% 0603
3G11	3198 031 06820	6.8kΩ 5% 0.01W 0402
3G12	4822 051 30759	75Ω 5% 0.062W
3G12	9965 000 34407	47UF 16V
3G13	4822 051 30331	330Ω 5% 0.062W
3G14	4822 051 30102	1kΩ 5% 0.062W
3G15	4822 051 30102	1kΩ 5% 0.062W
3G16	4822 051 30759	75Ω 5% 0.062W
3G16	9965 000 34407	47UF 16V
3G17	4822 051 30101	100Ω 5% 0.062W
3G18	4822 051 30103	10kΩ 5% 0.062W
3G19	4822 051 30103	10kΩ 5% 0.062W
3G20	4822 051 30153	15kΩ 5% 0.062W
3G21	4822 051 30153	15kΩ 5% 0.062W
3G22	4822 051 30151	150Ω 5% 0.062W
3G23	4822 051 30151	150Ω 5% 0.062W
3G24	4822 117 12891	220kΩ 1%
3G25	4822 117 12891	220kΩ 1%
3G26	4822 051 30103	10kΩ 5% 0.062W
3G27	4822 051 30103	10kΩ 5% 0.062W
3G28	4822 051 30759	75Ω 5% 0.062W
3G28	9965 000 34407	47UF 16V
3G29	4822 051 30102	1kΩ 5% 0.062W
3G30	4822 051 30689	68Ω 5% 0.063W 0603
3G33	4822 051 30102	1kΩ 5% 0.062W
3G34	4822 051 30101	100Ω 5% 0.062W
3G36	3198 031 04730	47Ω 5% 0402
3G37	3198 031 04730	47Ω 5% 0402
3G38	4822 051 30151	150Ω 5% 0.062W
3G39	4822 051 30273	27kΩ 5% 0.062W
3G57	3198 031 02730	27kΩ 5% 0402
3G58	4822 051 30689	68Ω 5% 0.063W 0603
3G59	2122 118 06408	91Ω 5% 0603
3G72	4822 051 30759	75Ω 5% 0.062W
3G72	9965 000 34407	47UF 16V
3G73	4822 051 30759	75Ω 5% 0.062W
3G73	9965 000 34407	47UF 16V
3G74	4822 051 30759	75Ω 5% 0.062W
3G74	9965 000 34407	47UF 16V
3G75	4822 051 30759	75Ω 5% 0.062W
3G75	9965 000 34407	47UF 16V
3G76	4822 117 13545	100Ω 1% 0402
3G77	3198 031 04730	47Ω 5% 0402
3G78	3198 031 04730	47Ω 5% 0402
3G79	3198 031 06820	6.8kΩ 5% 0.01W 0402
3G96	3198 031 04730	47Ω 5% 0402
3G99	3198 031 04730	47Ω 5% 0402
3J03	3198 031 06890	68Ω 5% 0402
3J04	3198 031 06890	68Ω 5% 0402
3J05	3198 031 06890	68Ω 5% 0402
3J07	3198 031 01220	1.2kΩ 5% 0.01W 0402
3K00	4822 117 13545	100Ω 1% 0402
3K01	4822 117 13545	100Ω 1% 0402
3K02	4822 117 13606	10kΩ 5% 0.01W 0402
3K03	3198 031 01530	15kΩ 5% 0.01W 0402
3K05	4822 117 13606	10kΩ 5% 0.01W 0402
3K06	3198 031 01530	15kΩ 5% 0.01W 0402
3K07	2322 705 70399	39Ω 5% 0402
3K08	3198 031 06890	68Ω 5% 0402
3K09	2322 705 70399	39Ω 5% 0402
3K11	3198 031 06890	68Ω 5% 0402
3K12	3198 031 06890	68Ω 5% 0402
3K13	3198 031 06890	68Ω 5% 0402
3L01	2350 033 11229	4x 22Ω 5% Netw.
3L02	2350 033 11229	4x 22Ω 5% Netw.
3L05	2350 033 11229	4x 22Ω 5% Netw.
3L06	2350 033 11229	4x 22Ω 5% Netw.
3L07	3198 031 02290	22Ω 5% 0.1W 0402
3L09	3198 021 32290	22Ω 5% 0603
3L10	3198 021 32290	22Ω 5% 0603
3L12	4822 117 13606	10kΩ 5% 0.01W 0402
3L13	3198 031 03910	390Ω 1% 0402
3L18	3198 031 01510	150Ω 5% 0.01W 0402
3L19	3198 031 01510	150Ω 5% 0.01W 0402
3L38	4822 051 30222	2.2kΩ 5% 0.062W
3L39	4822 051 30222	2.2kΩ 5% 0.062W
3L49	4822 117 13548	1kΩ 5% 0402
3L53	4822 117 13597	330Ω 5% 0.01W 0402
3L54	4822 117 13543	470Ω 5% 0402
3L55	4822 117 13545	100Ω 1% 0402
3L56	4822 117 13548	1kΩ 5% 0402
3L57	4822 117 13545	100Ω 1% 0402
3L58	4822 117 13548	1kΩ 5% 0402
3L60	4822 117 13605	Jumper 0402
3L61	4822 117 13597	330Ω 5% 0.01W 0402
3L62	4822 117 13543	470Ω 5% 0402
3L63	4822 117 13545	100Ω 1% 0402
3L64	4822 117 13548	1kΩ 5% 0402
3L65	4822 117 13545	100Ω 1% 0402
3L67	4822 117 13605	Jumper 0402
3L68	4822 117 13605	Jumper 0402
3L71	4822 117 13597	330Ω 5% 0.01W 0402
3L73	4822 117 13545	100Ω 1% 0402
3L75	4822 051 30153	15kΩ 5% 0.062W
3L76	4822 051 30153	15kΩ 5% 0.062W
3L92	3198 031 03390	33Ω 1% 0402
3L93	3198 031 06890	68Ω 5% 0402
3L94	3198 031 03910	390Ω 1% 0402
3L95	3198 031 03390	33Ω 1% 0402
3L95	4822 117 13605	Jumper 0402
3L96	3198 031 06890	68Ω 5% 0402
3L96	4822 117 13605	Jumper 0402
3L97	3198 031 03390	33Ω 1% 0402
3L98	3198 031 06890	68Ω 5% 0402
3L99	3198 031 03910	390Ω 1% 0402
3M01	2350 035 10689	4 x 68Ω 5%
3M02	2350 035 10689	4 x 68Ω 5%
3M03	2350 035 10689	4 x 68Ω 5%
3M04	2350 035 10689	4 x 68Ω 5%
3M06	2350 035 10229	4 x 22Ω 5% 1206
3M07	2350 035 10229	4 x 22Ω 5% 1206
3M08	2350 035 10229	4 x 22Ω 5% 1206
3M09	2350 035 10229	4 x 22Ω 5% 1206
3M11	3198 031 04720	4.7kΩ 5% 0402
3M13	3198 031 04720	4.7kΩ 5% 0402
3M14	4822 117 13545	100Ω 1% 0402
3M15	4822 117 13545	100Ω 1% 0402
3M16	3198 031 04720	4.7kΩ 5% 0402
3M50	4822 117 13606	10kΩ 5% 0.01W 0402
3M51	4822 117 13606	10kΩ 5% 0.01W 0402
3M52	4822 117 13606	10kΩ 5% 0.01W 0402
3M53	4822 117 13546	47Ω 5% 0402
3M54	4822 117 13546	47Ω 5% 0402
3M55	4822 117 13546	47Ω 5% 0402
3M56	4822 117 13606	10kΩ 5% 0.01W 0402
3M57	4822 117 13546	47Ω 5% 0402
3M58	4822 117 13606	10kΩ 5% 0.01W 0402
3M59	4822 117 13546	47Ω 5% 0402
3M78	4822 117 13548	1kΩ 5% 0402
3M79	3198 031 03320	3.3kΩ 5% 0402
3M87	4822 117 13605	Jumper 0402
3M89	3198 031 02290	22Ω 5% 0.1W 0402
3M90	3198 031 02290	22Ω 5% 0.1W 0402
3N01	4822 117 13545	100Ω 1% 0402
3N02	4822 117 13545	100Ω 1% 0402
3N03	4822 117 13545	100Ω 1% 0402
3N04	4822 117 13545	100Ω 1% 0402
3N05	4822 117 13545	100Ω 1% 0402
3N10	3198 031 01050	1MΩ 5% 0402
3N11	4822 117 13546	47Ω 5% 0402
3N12	3198 031 04720	4.7kΩ 5% 0402
3N14	3198 031 04720	4.7kΩ 5% 0402
3N15	3198 031 04720	4.7kΩ 5% 0402
3N16	3198 031 04720	4.7kΩ 5% 0402
3N17	3198 031 04720	4.7kΩ 5% 0402
3N19	4822 117 13543	470Ω 5% 0402
3N20	4822 117 13545	100Ω 1% 0402
3N21	4822 117 13545	100Ω 1% 0402
3N22	3198 031 04720	4.7kΩ 5% 0402
3N23	3198 031 04720	4.7kΩ 5% 0402
3N26	3198 031 04720	4.7kΩ 5% 0402
3N27	3198 031 04720	4.7kΩ 5% 0402
3N28	3198 031 04720	4.7kΩ 5% 0402
3N29	4822 117 13545	100Ω 1% 0402
3N71	3198 031 04720	4.7kΩ 5% 0402
3N72	3198 031 04720	4.7kΩ 5% 0402
3N73	3198 031 04720	4.7kΩ 5% 0402
3N80	4822 117 13545	100Ω 1% 0402
3N80	4822 117 13605	Jumper 0402
3N81	4822 117 13545	100Ω 1% 0402
3N81	4822 117 13605	Jumper 0402
3S00	3198 031 04730	47Ω 5% 0402
3S03	3198 031 04730	47Ω 5% 0402
4211	4822 117 13605	Jumper 0402
4212	4822 117 13605	Jumper 0402
4218	4822 117 13605	Jumper 0402
4219	4822 117 13605	Jumper 0402
4440	4822 117 13605	Jumper 0402
4441	4822 117 13605	Jumper 0402
4602	4822 051 30008	Jumper 0603
4603	4822 051 30008	Jumper 0603
4609	4822 051 30008	Jumper 0603
4610	4822 051 30008	Jumper 0603
4611	4822 051 30008	Jumper 0603
4612	4822 051 30008	Jumper 0603
4613	4822 051 30008	Jumper 0603
4616	4822 051 30008	Jumper 0603
4620	4822 051 30008	Jumper 0603
4801	4822 117 13605	Jumper 0402
4A02	4822 117 13605	Jumper 0402

4A03	4822 051 30008	Jumper 0603
4A05	4822 117 13605	Jumper 0402
4A06	4822 117 13605	Jumper 0402
4D03	4822 117 13605	Jumper 0402
4D04	4822 117 13605	Jumper 0402
4E01	4822 117 13605	Jumper 0402
4E10	3198 031 01090	10Ω 5% 0.01W 0402
4E11	3198 031 01090	10Ω 5% 0.01W 0402
4G04	4822 117 13605	Jumper 0402
4G05	4822 117 13605	Jumper 0402
4G07	4822 117 13605	Jumper 0402
4G08	4822 117 13605	Jumper 0402
4G14	4822 051 30008	Jumper 0603
4G15	4822 051 30008	Jumper 0603
4G16	4822 051 30008	Jumper 0603
4G17	4822 051 30008	Jumper 0603
4G18	4822 051 30008	Jumper 0603
4G31	4822 117 13605	Jumper 0402
4J01	4822 117 13605	Jumper 0402
4K04	4822 117 13605	Jumper 0402
4K05	4822 117 13605	Jumper 0402
4K07	4822 051 30008	Jumper 0603
4L37	4822 117 13545	100Ω 1% 0402
4M00	4822 117 13605	Jumper 0402
4M01	4822 117 13605	Jumper 0402
4M02	4822 117 13605	Jumper 0402
4M03	4822 117 13605	Jumper 0402
4M05	4822 117 13605	Jumper 0402
4M08	4822 117 13605	Jumper 0402
4M09	4822 117 13605	Jumper 0402
4M10	4822 117 13605	Jumper 0402
4M16	4822 117 13605	Jumper 0402
4M17	4822 117 13605	Jumper 0402
4N01	4822 117 13605	Jumper 0402
4N02	4822 117 13605	Jumper 0402
4N03	4822 117 13605	Jumper 0402
4N04	4822 117 13605	Jumper 0402
4N05	4822 117 13605	Jumper 0402
4N06	4822 117 13605	Jumper 0402
4N07	4822 117 13605	Jumper 0402
4N08	4822 117 13605	Jumper 0402
4N09	4822 117 13605	Jumper 0402
4N10	4822 117 13605	Jumper 0402
4N11	4822 117 13605	Jumper 0402
4N12	4822 117 13605	Jumper 0402
4N13	4822 117 13605	Jumper 0402
4N23	4822 117 13605	Jumper 0402
4N25	4822 117 13605	Jumper 0402
4N26	4822 117 13605	Jumper 0402
4N27	4822 117 13605	Jumper 0402
4N29	4822 117 13605	Jumper 0402
4N30	4822 117 13605	Jumper 0402
4N31	4822 117 13605	Jumper 0402
4N34	4822 117 13605	Jumper 0402
4N35	4822 117 13605	Jumper 0402

5151	3198 018 33970	0.39µH 10% 0805
5152	4822 157 71334	0.68µH 5% 1008
5153	4822 157 71334	0.68µH 5% 1008
5201	4822 157 11716	Bead 30Ω at 100MHz
5202	4822 157 11716	Bead 30Ω at 100MHz
5203	4822 157 11716	Bead 30Ω at 100MHz
5204	2422 549 42896	Bead 120Ω 100MHz
5205	4822 157 11716	Bead 30Ω at 100MHz
5206	4822 157 11716	Bead 30Ω at 100MHz
5207	2422 549 42896	Bead 120Ω 100MHz
5208	4822 157 11716	Bead 30Ω at 100MHz
5209	4822 157 11716	Bead 30Ω at 100MHz
5210	4822 157 11716	Bead 30Ω at 100MHz
5211	4822 157 11716	Bead 30Ω at 100MHz
5212	4822 157 11716	Bead 30Ω at 100MHz
5213	4822 157 11716	Bead 30Ω at 100MHz
5214	2422 536 00667	1000µH 20% 7032
5216	4822 157 11716	Bead 30Ω at 100MHz
5218	2422 549 45333	Bead 120Ω at 100MHz
5700	2422 549 45333	Bead 120Ω at 100MHz
5704	2422 549 45333	Bead 120Ω at 100MHz
5709	2422 535 94134	10µH 20% 0805
5713	2422 536 01218	3.3µH 30%
5717	2422 536 00671	10µH 20%
5730	2422 535 94134	10µH 20% 0805
5733	2422 536 00707	33µH 20%
5735	2422 536 00516	100µH 20%
5737	2422 535 94134	10µH 20% 0805
5738	2422 549 45333	Bead 120Ω at 100MHz
5751	2422 535 94134	10µH 20% 0805
5756	2422 549 45333	Bead 120Ω at 100MHz
5757	2422 549 45333	Bead 120Ω at 100MHz
5900	2422 549 45333	Bead 120Ω at 100MHz
5901	2422 549 45333	Bead 120Ω at 100MHz
5902	2422 549 45333	Bead 120Ω at 100MHz
5903	2422 549 45333	Bead 120Ω at 100MHz
5904	2422 549 45333	Bead 120Ω at 100MHz
5905	2422 549 45333	Bead 120Ω at 100MHz
5906	2422 549 45333	Bead 120Ω at 100MHz
5907	2422 549 45333	Bead 120Ω at 100MHz
5908	2422 549 45333	Bead 120Ω at 100MHz
5909	2422 549 45333	Bead 120Ω at 100MHz
5910	2422 549 45333	Bead 120Ω at 100MHz
5911	2422 549 45333	Bead 120Ω at 100MHz
5C00	2422 549 45333	Bead 120Ω at 100MHz
5D00	2422 549 42896	Bead 120Ω 100MHz
5D01	2422 549 42896	Bead 120Ω 100MHz
5D02	2422 549 42896	Bead 120Ω 100MHz
5D03	2422 549 42896	Bead 120Ω 100MHz
5D04	2422 549 42896	Bead 120Ω 100MHz
5D05	2422 549 42896	Bead 120Ω 100MHz
5D06	2422 549 42896	Bead 120Ω 100MHz
5E00	2422 549 45333	Bead 120Ω at 100MHz
5E01	2422 549 45333	Bead 120Ω at 100MHz
5G01	2422 549 45333	Bead 120Ω at 100MHz
5G02	2422 549 45333	Bead 120Ω at 100MHz
5G03	2422 549 45333	Bead 120Ω at 100MHz
5G06	2422 549 45333	Bead 120Ω at 100MHz
5G07	2422 549 42896	Bead 120Ω 100MHz
5G08	2422 549 42896	Bead 120Ω 100MHz
5J01	2422 549 42896	Bead 120Ω 100MHz
5J02	2422 549 42896	Bead 120Ω 100MHz
5J03	2422 549 45333	Bead 120Ω at 100MHz
5J04	2422 549 45333	Bead 120Ω at 100MHz
5K00	3198 018 51080	1µH 10% 0603
5K01	3198 018 51080	1µH 10% 0603
5K02	3198 018 51080	1µH 10% 0603
5L01	2422 549 45333	Bead 120Ω at 100MHz
5L11	2422 549 45333	Bead 120Ω at 100MHz
5L17	2422 549 45333	Bead 120Ω at 100MHz
5L19	2422 549 45333	Bead 120Ω at 100MHz
5L21	2422 549 45333	Bead 120Ω at 100MHz
5L51	4822 157 71694	0.82µH 10%
5L52	3198 018 53380	3.3µH 10% 0603
5L53	3198 018 56880	6.8µH 10% 0603
5L61	4822 157 71694	0.82µH 10%
5L62	3198 018 53380	3.3µH 10% 0603
5L63	3198 018 56880	6.8µH 10% 0603
5L71	2422 549 45333	Bead 120Ω at 100MHz
5M00	2422 549 45333	Bead 120Ω at 100MHz
5M01	2422 549 45333	Bead 120Ω at 100MHz
5M02	2422 549 45333	Bead 120Ω at 100MHz
5M03	2422 549 45333	Bead 120Ω at 100MHz
5M04	2422 549 45333	Bead 120Ω at 100MHz
5M05	2422 549 45333	Bead 120Ω at 100MHz
5N03	4822 157 11716	Bead 30Ω at 100MHz
5N04	4822 157 11716	Bead 30Ω at 100MHz
5N05	4822 157 11716	Bead 30Ω at 100MHz
5N06	4822 157 11716	Bead 30Ω at 100MHz
5N07	4822 157 11716	Bead 30Ω at 100MHz
5N10	4822 157 11716	Bead 30Ω at 100MHz
5N11	4822 157 11716	Bead 30Ω at 100MHz
5N12	4822 157 11716	Bead 30Ω at 100MHz
5N72	4822 157 11716	Bead 30Ω at 100MHz

6151	4822 130 11416	PDZ6.8B
6152	4822 130 11416	PDZ6.8B
6153	4822 130 11397	BAS316
6154	4822 130 11525	1SS356
6204	4822 130 80622	BAT54
6205	4822 130 80622	BAT54
6430	9340 548 42115	PDZ2.4B
6431	9965 000 20150	1N4148WS SOD-323
6601	4822 130 10838	UDZ3.3B
6717	4822 130 11397	BAS316
6718	3198 010 10720	SS24
6733	9322 128 70685	SMSS14
6734	4822 130 11416	PDZ6.8B
6735	5322 130 34337	BAV99
6736	9340 548 71115	PDZ33B
6740	4822 130 10837	UDZS8.2B
6G01	4822 130 11564	UDZ3.9B
6G02	4822 130 11564	UDZ3.9B
6G03	4822 130 11564	UDZ3.9B
6G04	4822 130 11564	UDZ3.9B
6G06	4822 130 11564	UDZ3.9B
6G07	4822 130 11564	UDZ3.9B
6G08	4822 130 11564	UDZ3.9B
6G09	4822 130 11564	UDZ3.9B
6N19	9322 085 77685	TLMG3100

7151	3198 010 42310	BC847BW
7201	9340 550 49115	PUMH7
7202	9340 550 49115	PUMH7
7206	4822 130 60373	BC856B
7207		For SW see item 0802
7208	3198 010 42310	BC847BW
7209	3198 010 42310	BC847BW
7210	3198 010 42310	BC847BW
7214	9339 693 90135	BCP69-25
7215	9339 693 90135	BCP69-25
7216	9340 425 20115	BC847BS
7217		For SW see item 0801
7217	9352 803 66557	TDA15021H/N1C91
7219	3198 010 71090	74HC4053D
7219	9322 164 91668	CD74HC4053M
7220	9965 000 04199	BSN20
7221	9965 000 04199	BSN20
7430	4822 130 11155	PDTC114ET
7436	3198 010 70740	74LCX14T
7436	9322 221 97668	SN74LVC14APW
7601	9322 183 05668	TS482ID
7602	9351 742 70118	74HC08PW
7603	3198 010 42310	BC847BW
7604	3198 010 42310	BC847BW
7605	9340 310 50215	PDTA143ET
7606	9340 425 20115	BC847BS
7607	3198 010 42310	BC847BW
7708	9322 139 16668	LF33CPT
7710	9322 182 77668	L6910
7711	9322 160 70668	SI4936ADY
7730	9322 202 34668	L5973D
7735	4822 130 11057	2N7002
7738	9322 163 24668	L78M08CDT
7741	3198 010 42310	BC847BW
7742	3198 010 42310	BC847BW
7754	9322 214 00668	SI2301BDS-E3
7755	4822 130 11155	PDTC114ET
7756	4822 130 11155	PDTC114ET
7758	9322 212 14668	SI4423DY
7801	9322 230 32671	For SW see item 0811
7900	9322 142 88668	LF25CDT
7901	9322 189 19668	LD1086D2T18
7A02	3198 010 42310	BC847BW
7A03	3198 010 42310	BC847BW
7B01	9322 214 42671	K4D263238F-QC50
7B01	9322 235 50671	K4D263238I-UC50
7C01	9322 189 01668	AT24C32AN
7C01	9322 206 23668	For SW see item 0812
7C02	9322 215 39685	PST596JN
7C03	9322 199 93668	M29W400DT-55N6
7D00		For SW see item 0821
7D01		For SW see item 0822
7D02	9322 189 19668	LD1086D2T18
7D03	9352 784 83551	TDA9974AEL/8/C1
7D03	9352 810 72557	TDA9974AEL/8/C107
7D04	9352 668 39118	UDA1334ATS/N2
7D05	2722 171 00038	Xtal 13M5 15pF
7E00	9322 195 23668	ADG733BRU
7E01	9322 199 80668	SM5301BS-G
7E04	3198 010 70740	74LCX14T
7E04	9322 221 97668	SN74LVC14APW
7E05	3198 010 70740	74LCX14T
7E05	9322 221 97668	SN74LVC14APW
7F01	3198 010 42310	BC847BW
7F02	3198 010 42310	BC847BW
7F03	4822 209 15765	74HC4052D
7F04	3198 010 42310	BC847BW
7F05	3198 010 42310	BC847BW
7G01	3198 010 42310	BC847BW
7G02	3198 010 42310	BC847BW
7G11	3198 010 71090	74HC4053D
7G11	9322 164 91668	CD74HC4053M
7L01	9322 226 40671	P3563M-LF-80
7L02	4822 209 17398	LD1117DT33
7L51	3198 010 42310	BC847BW
7L52	3198 010 42320	BC857BW
7L61	3198 010 42310	BC847BW
7L62	3198 010 42320	BC857BW
7L71	3198 010 42310	BC847BW
7L72	9322 226 94668	SM5304AV-G
7M00	9322 204 76671	T6TU5XBG-0001
7M01	9322 206 19672	MSM56V16160F-7T3-FG
7M03	9322 170 14668	LF15ABDT
7N00	9322 229 60671	PACIFIC3-N2/N1
7N00	9322 230 92671	PACIFIC3-N3(O2)
7N02	9322 206 45668	M25P05-AVMN6P
7N03	9322 187 04668	LF25ABDT
7N04	9322 170 14668	LF15ABDT

Audio Amplifier Panel [C]

Various

1001	2422 025 09406	Connector 4p m

1002	2422 025 10769	Connector 9p m
1003	2422 025 10768	Connector 3p m

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2001	2020 024 00023	220µ 35V
2002	2238 586 59812	100nF 20% 50V 0603
2003	2238 586 59812	100nF 20% 50V 0603
2004	2020 024 00023	220µ 35V
2006	2020 552 94427	100pF 5% 50V
2007	2020 552 94427	100pF 5% 50V
2008	2020 552 94427	100pF 5% 50V
2009	2020 552 94427	100pF 5% 50V
2010	2238 586 59812	100nF 20% 50V 0603
2012	2020 024 00023	220µ 35V
2014	4822 126 14238	2.2nF 50V 0603
2015	4822 126 14238	2.2nF 50V 0603
2016	4822 126 14238	2.2nF 50V 0603
2017	2238 586 59812	100nF 20% 50V 0603
2018	3198 017 31530	15nF 20% 50V 0603
2019	3198 037 52280	2.2µ 50V
2020	4822 126 13883	220pF 5% 50V
2021	4822 126 13883	220pF 5% 50V
2022	4822 126 14076	220nF +80/-20% 25V
2023	4822 121 51252	470nF 5% 63V
2024	2020 012 00036	1000µ 25V
2026	3198 017 42240	220nF 16V Y5V 0603
2027	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603
2029	2020 024 00023	220µ 35V
2030	4822 126 14238	2.2nF 50V 0603
2031	4822 126 14238	2.2nF 50V 0603
2032	4822 126 14238	2.2nF 50V 0603
2034	2238 586 59812	100nF 20% 50V 0603
2035	4822 126 13883	220pF 5% 50V
2036	4822 126 13883	220pF 5% 50V
2037	3198 037 52280	2.2µ 50V
2038	3198 017 31530	15nF 20% 50V 0603
2039	2020 552 96656	10µF 20% 25V 1210
2040	3198 017 42240	220nF 16V Y5V 0603
2041	2020 552 96656	10µF 20% 25V 1210
2042	4822 121 51252	470nF 5% 63V
2043	2020 012 00036	1000µ 25V
2044	2238 586 59812	100nF 20% 50V 0603
2045	4822 126 14076	220nF +80/-20% 25V
2047	3198 017 41050	1µF 10V 0603
2048	2238 586 59812	100nF 20% 50V 0603
2049	2020 552 96305	4.7µF 20-80% 10V
2051	2020 552 94427	100pF 5% 50V
2052	4822 126 14238	2.2nF 50V 0603
2053	4822 126 14238	2.2nF 50V 0603
2054	4822 126 14238	2.2nF 50V 0603
2055	4822 126 14238	2.2nF 50V 0603
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	3198 017 34730	47nF 16V 0603
2063	3198 017 34730	47nF 16V 0603
2064	5322 126 11579	3.3nF 10% 63V
2065	5322 126 11579	3.3nF 10% 63V

-WW-

3001	5322 117 11726	10Ω 5%
3002	4822 051 30562	5.6kΩ 5% 0.063W 0603
3003	4822 051 30223	22kΩ 5% 0.062W
3004	4822 051 30332	3.3Ω 5% 0.062W
3006	4822 051 30102	1kΩ 5% 0.062W
3007	4822 117 12925	47kΩ 1% 0.063W 0603
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 117 12891	220kΩ 1%
3010	4822 051 30272	2.7kΩ 5% 0.062W
3011	4822 051 30222	2.2kΩ 5% 0.062W
3012	4822 051 20109	10Ω 5% 0.1W
3013	4822 051 30123	12kΩ 5% 0.1W
3014	2322 762 60229	22Ω 5% 1005
3019	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 051 30472	4.7Ω 5% 0.062W
3022	3198 021 32290	22Ω 5% 0603
3023	4822 051 30102	1kΩ 5% 0.062W
3024	4822 117 12925	47kΩ 1% 0.063W 0603
3025	4822 051 30222	2.2kΩ 5% 0.062W
3026	4822 051 30272	2.7kΩ 5% 0.062W
3027	4822 117 12891	220kΩ 1%
3028	4822 051 30103	10kΩ 5% 0.062W
3029	4822 051 30222	2.2kΩ 5% 0.062W
3030	4822 051 20109	10Ω 5% 0.1W
3031	2322 762 60229	22Ω 5% 1005
3032	4822 051 30392	3.9Ω 5% 0.063W 0603
3033	4822 051 30123	12kΩ 5% 0.1W
3034	4822 051 30392	3.9Ω 5% 0.063W 0603
3037	4822 051 30392	3.9Ω 5% 0.063W 0603
3039	4822 051 30103	10kΩ 5% 0.062W
3040	4822 051 30103	10kΩ 5% 0.062W
3041	4822 051 30103	10kΩ 5% 0.062W
3042	4822 051 30103	10kΩ 5% 0.062W
3043	4822 051 30103	10kΩ 5% 0.062W
3046	4822 051 30102	1kΩ 5% 0.062W
3047	4822 051 30102	1kΩ 5% 0.062W

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5001	2422 549 44197	Bead 220Ω at 100MHz
5002	3198 018 52280	2.2µH 10% 0603
5003	3198 018 52280	2.2µH 10% 0603
5004	3198 018 52280	2.2µH 10% 0603
5005	3198 018 52280	2.2µH 10% 0603
5006	2422 536 01034	33µH
5007	2422 536 01034	33µH

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6002	4822 130 80622	BAT54
6003	4822 130 80622	BAT54

7000	9352 760 45118	TDA8931T/N1
7001	9352 760 45118	TDA8931T/N1
7004	9322 209 56685	TL431ACDBV

Side I/O Panel [D]

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	2422 026 05807	Sckt Cinch 3p f YeWhRd
1010	4822 267 31014	Sckt headphone
1301	4822 267 10484	YKF51-5359
1302	2422 026 05655	Cinch 3p f RdWhYe
1303	2422 026 05059	Connector Phone
1304	2422 025 10772	Connector 12p m
1M36	2422 025 17179	Connector 11p m

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2003	2022 552 05679	1µF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603
2302	4822 126 11785	47pF 5% 50V 0603
2304	4822 126 11785	47pF 5% 50V 0603
2306	4822 126 14241	330pF 0603 50V
2307	4822 126 14241	330pF 0603 50V
2308	5322 126 11583	10nF 10% 50V 0603
2309	5322 126 11583	10nF 10% 50V 0603
2310▲	3198 017 41050	1µF 10V 0603

-WW-

3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
3301	4822 051 30759	75Ω 5% 0.062W
3302	4822 051 30109	10Ω 5% 0.062W
3303	4822 051 30109	10Ω 5% 0.062W
3304	4822 051 30759	75Ω 5% 0.062W
3305	4822 117 13632	100kΩ 1% 0603 0.62W
3306	4822 051 30153	15kΩ 5% 0.062W
3307	4822 051 30102	1kΩ 5% 0.062W
3308	4822 051 30153	15kΩ 5% 0.062W
3309▲	4822 051 30759	75Ω 5% 0.062W
3310▲	4822 051 30563	56kΩ 5% 0.062W
3311	4822 051 30103	10kΩ 5% 0.062W
4301	4822 051 30008	Jumper 0603
9004	4822 051 30008	Jumper 0603
9005	4822 051 30008	Jumper 0603
9006	4822 051 30008	Jumper 0603
9007	4822 051 30008	Jumper 0603
9008	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9010	4822 051 30008	Jumper 0603
9011	4822 051 30008	Jumper 0603
9390	3198 036 90010	Wire 0.58mm
9391	3198 036 90010	Wire 0.58mm
9392	3198 036 90010	Wire 0.58mm
9393	3198 036 90010	Wire 0.58mm

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6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B
6301	9322 129 41685	BZM55-C12
6302	9322 129 41685	BZM55-C12
6303	9322 129 41685	BZM55-C12
6304	9322 129 41685	BZM55-C12
6305	9322 129 41685	BZM55-C12
6306	9322 129 41685	BZM55-C12
6307	9322 129 41685	BZM55-C12
6308	9322 129 41685	BZM55-C12

7301▲	4822 130 60373	BC856B

Control Board [E]

Various

1309	4822 276 13775	Switch 1p 0.1A 12V
1310	4822 276 13775	Switch 1p 0.1A 12V
1311	4822 276 13775	Switch 1p 0.1A 12V
1312	4822 276 13775	Switch 1p 0.1A 12V
1313	4822 276 13775	Switch 1p 0.1A 12V
1314	4822 276 13775	Switch 1p 0.1A 12V
1684	4822 267 10459	Connector 3p
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1706	4822 276 13775	Switch 1p 0.1A 12V
1M01	2422 025 10775	Connector 3p m
8684	3139 131 04421	Cable 3p/340/3p

-WW-

3002	4822 051 30151	150Ω 5% 0.062W
3003	4822 051 30391	390Ω 5% 0.062W
3004	4822 051 30561	560Ω 5% 0.062W
3005	4822 117 12968	820Ω 5% 0.62W
3006	3198 021 31820	1.8kΩ 5% 0.062W 0603
3318	4822 051 30151	150Ω 5% 0.062W
3319	4822 051 30391	390Ω 5% 0.062W
3320	3198 021 31820	1.8kΩ 5% 0.062W 0603
3321	4822 117 12968	820Ω 5% 0.62W
3322	4822 051 30008	Jumper 0603
3323	4822 051 30008	Jumper 0603
3324	4822 051 30561	560Ω 5% 0.062W
3999	4822 117 11454	820Ω 1% 0.1W

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6306	4822 130 11148	UDZ4.7B

LED & IR Panel [J]

Various

0345	2422 025 18741	Connector 6p m
1001	3139 237 16673	PWB ASSY RC4343/01
1040	9322 206 81667	TSOP34836YA1
1309	4822 276 13775	Switch 1p 0.1A 12V
1310	4822 276 13775	Switch 1p 0.1A 12V
1311	4822 276 13775	Switch 1p 0.1A 12V
1312	4822 276 13775	Switch 1p 0.1A 12V
1313	4822 276 13775	Switch 1p 0.1A 12V

1314	4822 276 13775	Switch 1p 0.1A 12V
1684	2422 025 10775	Connector 3p m
8684	3139 131 04421	Cable 3p/340/3p

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2002	2022 020 00897	22µF 20% 6V3
2040	4822 124 12095	100µF 20% 16V
2801	2020 552 96637	10µF 10% 6.3V 0805
2802	2020 552 96637	10µF 10% 6.3V 0805

-WW-

3040	4822 117 13597	330Ω 5% 0.01W 0402
3051	4822 051 30221	220Ω 5% 0.062W
3061	4822 051 30221	220Ω 5% 0.062W
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3078	3198 031 02250	2.2MΩ 5% 0.1W 0402
3318	4822 051 30151	150Ω 5% 0.062W
3319	4822 051 30391	390Ω 5% 0.062W
3320	3198 021 31820	1.8kΩ 5% 0.062W 0603
3321	4822 117 12968	820Ω 5% 0.62W
3324	4822 051 30561	560Ω 5% 0.062W
3801	4822 051 30332	3.3Ω 5% 0.062W
3802	4822 051 30331	330Ω 5% 0.062W
3803	4822 051 30221	220Ω 5% 0.062W
4815	4822 051 30008	Jumper 0603
9012	4822 117 13605	Jumper 0402
9041	4822 117 13605	Jumper 0402
9042	4822 117 13605	Jumper 0402
9062	4822 117 13605	Jumper 0402
9066	4822 117 13606	10kΩ 5% 0.01W 0402
9070	4822 117 13605	Jumper 0402
9081	4822 117 13605	Jumper 0402
9082	4822 117 13605	Jumper 0402
9111	4822 117 13605	Jumper 0402
9112	4822 117 13605	Jumper 0402
9115	4822 117 13605	Jumper 0402
9122	4822 117 13605	Jumper 0402

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5000	2422 540 98534	Reson. 4MHz ZTT*MGW
5001	2422 540 98534	Reson. 4MHz ZTT*MGW

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6000	9322 207 77676	LED IR LTE-3271BL-JA
6001	9322 218 40668	LED IR L-934F3BT
6051	9322 218 97685	SML-310VTK
6060	9322 134 46685	SML-310MT
6070	9322 140 63685	TEMD5000
6306	4822 130 11148	UDZ4.7B
6311	4822 130 11148	UDZ4.7B
6312	4822 130 11148	UDZ4.7B
6314	4822 130 11148	UDZ4.7B
6801	9322 192 35676	SPR-325MVW
6803	4822 130 11564	UDZ3.9B
6809	4822 130 11564	UDZ3.9B

7051	3198 010 42310	BC847BW
7052	3198 010 42310	BC847BW
7062	4822 130 60373	BC856B
7801	4822 130 60373	BC856B
7802	9322 206 81667	TSOP34836YA1
7802	9322 207 16667	TSOP34836LL1B
7803	5322 130 60159	BC846B
7804	5322 130 60159	BC846B

Standby & Audio Panel 37-42" [SA]

Various

1303	2422 025 04475	Connector 4p m
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306▲	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1309	2422 025 11143	Connector 3p m
1315	2422 025 10771	Connector 10p m
1316	2422 025 10772	Connector 12p m
1319	2422 025 10773	Connector 14p m
1320	2422 025 11143	Connector 3p m
1735	4822 267 10918	Connector 3p
1736	2422 025 10768	Connector 3p m
1739	2422 025 10769	Connector 9p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m
8103	3104 311 06641	Cable10p/180/10p
8146	3104 311 08621	Cable 11p/220/11p
8152	3104 311 06811	Cable 9p/340/9p
8305	3104 311 08401	Cable 3p/280/3p
8305▲	3104 311 08411	Cable 3p/340/3p
8306	3104 311 08351	Cable 2p3/340/2p3
8322	3104 311 09221	Cable 10p/220/10p Wh
8337	3104 311 11551	Cable 11p/220/11p Wh
8J04	3104 311 06811	Cable 9p/340/9p

⊣⊢

2101	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40207	100µF 20% 25V
2103	2020 552 94427	100pF 5% 50V
2105	2020 552 94427	100pF 5% 50V
2109	4822 126 14583	470nF 10% 16V 0805
2110	2022 552 05679	1µF 10% 16V 0805
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2123	2238 586 59812	100nF 20% 50V 0603
2124	4822 124 40248	10µF 20% 63V
2129	5322 126 11578	1nF 10% 50V 0603
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2144	2022 552 05679	1µF 10% 16V 0805
2145	4822 126 13881	470pF 5% 50V
2149	4822 126 14583	470nF 10% 16V 0805
2150	4822 124 12379	220µF 25V
2152	4822 121 70162	10nF 5% 400V
2153	5322 126 11582	6.8nF 10% 63V
2154	3198 017 31530	15nF 20% 50V 0603
2163	4822 124 40207	100µF 20% 25V
2506▲	2022 554 04155	470pF 20% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2512	4822 124 80061	1000µF 20% 25V
2513	2222 930 56627	2.2nF 10% 200V 0805
2533	4822 124 40207	100µF 20% 25V
2534	2022 552 05679	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2539	2022 552 05679	1µF 10% 16V 0805
2540	5322 126 11583	10nF 10% 50V 0603
2544	5322 126 11583	10nF 10% 50V 0603
2702	5322 126 11578	1nF 10% 50V 0603
2704	5322 126 11578	1nF 10% 50V 0603
2705	2020 552 96684	470nF 10% 25V 0805
2706	2222 580 15649	100nF 10% 50V 0805
2707	4822 126 14585	100nF 10% 0805 50V
2708	2020 552 96326	220nF 10% 16V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	5322 126 11578	1nF 10% 50V 0603
2712	2020 552 96683	220nF 10% 50V
2713	2020 552 96684	470nF 10% 25V 0805
2714	3198 017 33330	33nF 20% 16V 0603
2715	5322 126 11578	1nF 10% 50V 0603
2716	4822 126 14241	330pF 0603 50V
2717	5322 121 42498	680nF 5% 63V
2718	4822 122 33761	22pF 5% 50V
2719	5322 126 11578	1nF 10% 50V 0603
2720	2020 552 96326	220nF 10% 16V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2725	2020 552 94427	100pF 5% 50V
2726	3198 017 33330	33nF 20% 16V 0603
2727	5322 126 11578	1nF 10% 50V 0603
2728	4822 126 14241	330pF 0603 50V
2729	5322 121 42498	680nF 5% 63V
2764	4822 126 14491	2.2µF 10V 0805
2766	4822 126 14491	2.2µF 10V 0805
2768	4822 124 40255	100µF 20% 63V
2769	4822 124 40255	100µF 20% 63V
2777	2020 552 96683	220nF 10% 50V
2778	4822 124 40769	4.7µF 20% 100V
2779	2020 552 96683	220nF 10% 50V
2780	2020 552 96683	220nF 10% 50V
2781	2020 552 96683	220nF 10% 50V
2783	4822 124 41751	47µF 20% 50V
2785	4822 124 40207	100µF 20% 25V
2786	2238 586 15641	22nF 10% 50V 0603
2788	4822 124 40255	100µF 20% 63V
2789	2020 552 96683	220nF 10% 50V
2790	4822 124 40255	100µF 20% 63V

-WW-

3100	4822 051 30101	100Ω 5% 0.062W
3101	4822 053 20475	4.7MΩ 5% 0.25W
3102	2312 915 11002	1kΩ 1% 0.5W
3103	2312 915 11002	1kΩ 1% 0.5W
3104	4822 051 30479	47Ω 5% 0.062W
3105	4822 051 30221	220Ω 5% 0.062W
3106	4822 051 30391	390Ω 5% 0.062W
3107	4822 051 30391	390Ω 5% 0.062W
3108	4822 053 10478	4.7Ω 5% 1W
3109	4822 051 30391	390Ω 5% 0.062W
3110	4822 051 30391	390Ω 5% 0.062W
3111	4822 053 10152	1.5kΩ 5% 1W
3112	4822 051 30391	390Ω 5% 0.062W
3113	3198 021 32290	22Ω 5% 0603
3114	4822 051 30221	220Ω 5% 0.062W
3117	4822 051 30479	47Ω 5% 0.062W
3122	4822 051 30471	470Ω 5% 0.062W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 051 30339	33Ω 5% 0.062W
3125	4822 117 12971	15Ω 5% 0603 0.62W
3126	4822 051 30103	10kΩ 5% 0.062W
3127	4822 051 30562	5.6kΩ 5% 0.063W 0603
3128	3198 021 34780	4.7Ω 5% 0603
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3138	4822 051 30105	1MΩ 5% 0.062W
3140	4822 051 30223	22kΩ 5% 0.062W
3141	4822 051 30471	470Ω 5% 0.062W
3145	4822 051 30472	4.7Ω 5% 0.062W
3146	4822 051 30479	47Ω 5% 0.062W
3147	4822 051 30223	22kΩ 5% 0.062W
3148	4822 051 30479	47Ω 5% 0.062W
3149	4822 051 30103	10kΩ 5% 0.062W
3150	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1kΩ 5% 0.062W
3153	4822 051 30223	22kΩ 5% 0.062W
3155	4822 050 21003	10kΩ 1% 0.6W
3156	4822 051 30102	1kΩ 5% 0.062W
3157	4822 051 30223	22kΩ 5% 0.062W
3158	4822 051 30479	47Ω 5% 0.062W
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3190	4822 053 10222	2.2kΩ 5% 1W
3191	4822 053 10222	2.2kΩ 5% 1W
3192	4822 053 10222	2.2kΩ 5% 1W
3506	4822 051 30471	470Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30472	4.7Ω 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3540	4822 051 30222	2.2kΩ 5% 0.062W
3541	4822 051 30222	2.2kΩ 5% 0.062W
3542	4822 051 30103	10kΩ 5% 0.062W
3543	4822 051 30223	22kΩ 5% 0.062W
3544	4822 051 30221	220Ω 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	3198 021 34780	4.7Ω 5% 0603
3701	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30682	6.8Ω 5% 0.062W
3703	4822 051 30333	33kΩ 5% 0.062W
3704	4822 117 10833	10kΩ 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4.7Ω 5% 0.062W
3707	4822 051 30683	68kΩ 5% 0.062W
3708	4822 051 30563	56kΩ 5% 0.062W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 30223	22kΩ 5% 0.062W
3711	4822 050 21204	120kΩ 1% 0.6W
3712	4822 051 30103	10kΩ 5% 0.062W
3713	2312 915 11202	1.2kΩ 1% 0.5W
3714	4822 117 12925	47kΩ 1% 0.063W 0603
3715	4822 117 12925	47kΩ 1% 0.063W 0603
3716	4822 117 12925	47kΩ 1% 0.063W 0603
3717	4822 117 13632	100kΩ 1% 0603 0.62W
3718	4822 117 13632	100kΩ 1% 0603 0.62W
3721	4822 051 30472	4.7Ω 5% 0.062W
3722	4822 051 30683	68kΩ 5% 0.062W
3723	4822 051 30563	56kΩ 5% 0.062W
3724	4822 117 11503	220Ω 1% 0.1W
3725	4822 051 30223	22kΩ 5% 0.062W
3726	4822 117 11503	220Ω 1% 0.1W
3727	4822 117 11503	220Ω 1% 0.1W
3743	4822 117 11449	2.2kΩ 5% 0.1W 0805
3746	4822 051 30223	22kΩ 5% 0.062W
3747	4822 050 21003	10kΩ 1% 0.6W

3748	4822 051 30471	47Ω 5% 0.062W
3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
3759	4822 051 30332	3.3Ω 5% 0.062W
3760	4822 051 30332	3.3Ω 5% 0.062W
3761	4822 117 10833	10kΩ 1% 0.1W
3761	4822 117 11454	820Ω 1% 0.1W
3762	4822 051 30222	2.2kΩ 5% 0.062W
3763	4822 051 30222	2.2kΩ 5% 0.062W
3764	4822 117 10833	10kΩ 1% 0.1W
3764	4822 117 11454	820Ω 1% 0.1W
3765	4822 051 30123	12kΩ 5% 0.1W
3766	4822 051 30103	10kΩ 5% 0.062W
3767	4822 051 30123	12kΩ 5% 0.1W
3768	4822 051 30103	10kΩ 5% 0.062W
3790	4822 051 30682	6.8Ω 5% 0.062W
3791	4822 051 30682	6.8Ω 5% 0.062W
3792	4822 051 30153	15kΩ 5% 0.062W
3793	4822 051 30153	15kΩ 5% 0.062W
3798	4822 051 30153	15kΩ 5% 0.062W
3999	3198 021 38220	8.2kΩ 5% 0.062W 0603
3999	4822 117 12864	82kΩ 5% 0.6W
9041	4822 051 20008	Jumper 0805
9042	4822 051 20008	Jumper 0805
9044	4822 051 20008	Jumper 0805
9080	4822 051 20008	Jumper 0805
9081	4822 051 20008	Jumper 0805

5102	4822 526 10704	Bead 50 Ω at 100MHz
5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	2422 549 43769	Bead 30Ω at 100MHz
5106	4822 157 11441	22µH 5%
5108	4822 526 10704	Bead 50 Ω at 100MHz
5110	4822 157 71736	10µH 5%
5500▲	3104 308 21181	BS25320-00
5504	2422 536 00776	33µH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15µH 10%
5701	2422 536 00951	68µH 20% LHL10
5702	2422 536 00951	68µH 20% LHL10
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11716	Bead 30Ω at 100MHz
5707	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz
5711	4822 157 11411	Bead 80Ω at 100MHz
5712	4822 157 11411	Bead 80Ω at 100MHz
5730	2422 549 00112	Line filt. 50V 3A
5731	2422 549 00112	Line filt. 50V 3A

6103	5322 130 31938	BYV27-200
6104	9340 548 69115	PDZ27B
6105	4822 130 11522	UDZ15B
6106	9340 548 67115	PDZ22B
6108	4822 130 80622	BAT54
6114	5322 130 31938	BYV27-200
6115	4822 130 80622	BAT54
6116	3198 020 55680	BZX384-C5V6
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6122	9322 129 34685	BZM55-C3V9
6133	4822 130 11397	BAS316
6140	4822 130 83755	BYW36
6142	4822 130 80622	BAT54
6144	4822 130 11397	BAS316
6147	9322 208 44685	BZG05C6V8
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6150	9340 292 50135	BZG03-C200
6151	9340 548 71115	PDZ33B
6153	9340 292 50135	BZG03-C200
6156	4822 130 11397	BAS316
6504	9322 203 12673	BYV27-600
6505	9322 161 78682	SB360L-7024
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6540	4822 130 80622	BAT54
6562	9340 548 67115	PDZ22B
6701	4822 130 11397	BAS316
6702	4822 130 11551	UDZS10B
6703	4822 130 11551	UDZS10B
6704	4822 130 11397	BAS316

7100	3198 010 42320	BC857BW
7101	9340 219 30115	BC817-25W
7102	9322 160 34687	FQPF3N60
7105	3198 010 42320	BC857BW
7140	3198 010 42310	BC847BW
7150▲	9322 149 04682	TCET1102
7501▲	9322 149 04682	TCET1102
7505	3198 010 42320	BC857BW
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7509	3198 010 42310	BC847BW
7531	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7560	9340 219 30115	BC817-25W
7700	9322 163 86682	TDA7490L
7701	3198 010 42310	BC847BW
7703	3198 010 42310	BC847BW
7704	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 42320	BC857BW
7707	3198 010 42310	BC847BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW

OTC Flash Panel [T]

Various

1000	2422 025 19459	Connector 14p m
1001	2422 543 01497	Xtal 6MHz 20pF

2001	4822 126 14324	33pF 5% 50V 0402
2002	3198 034 02790	47pF 1% 50V 0402
2003	2020 552 96718	220nF 10% 6.3V 0402
2004	2020 552 96718	220nF 10% 6.3V 0402
2007	3198 035 71040	100nF 10% 16V 0402
2008	3198 035 71040	100nF 10% 16V 0402
2010	3198 034 04790	27pF 1% 50V 0402
2011	3198 034 04790	27pF 1% 50V 0402
2012	3198 034 04790	27pF 1% 50V 0402
2019	3198 035 71040	100nF 10% 16V 0402
2020	3198 035 71040	100nF 10% 16V 0402
2021	3198 035 71040	100nF 10% 16V 0402
2022	3198 035 71040	100nF 10% 16V 0402
2023	3198 035 71040	100nF 10% 16V 0402
2024	3198 035 71040	100nF 10% 16V 0402
2025	3198 035 71040	100nF 10% 16V 0402
2026	3198 035 71040	100nF 10% 16V 0402
2027	3198 035 71040	100nF 10% 16V 0402
2028	3198 035 71040	100nF 10% 16V 0402
2029	4822 124 12095	100µF 20% 16V
2031	3198 035 71040	100nF 10% 16V 0402
2033	2238 869 15829	82pF 5% 50V 0402
2034	2238 869 15829	82pF 5% 50V 0402
2035	2238 869 15829	82pF 5% 50V 0402
2036	2238 869 15829	82pF 5% 50V 0402
2037	2238 869 15829	82pF 5% 50V 0402
2038	3198 035 71040	100nF 10% 16V 0402

3002	4822 117 13545	100Ω 1% 0402
3003	4822 117 13525	24kΩ 1% 0.62W 0603
3005	4822 117 13545	100Ω 1% 0402
3006	4822 117 13606	10kΩ 5% 0.01W 0402
3007	3198 031 14710	4 x 470Ω 5% 1206
3008	4822 117 13523	220Ω 5% 0.63W
3010	4822 117 13543	470Ω 5% 0402
3011	4822 117 13545	100Ω 1% 0402
3012	3198 031 11010	4 x 100Ω 5% 1206
3013	3198 031 04720	4.7kΩ 5% 0402
3014	3198 031 04720	4.7kΩ 5% 0402
3015	4822 117 13545	100Ω 1% 0402
3016	4822 117 13545	100Ω 1% 0402
3021	4822 117 13605	Jumper 0402
3023	4822 117 13606	10kΩ 5% 0.01W 0402
3029	4822 117 13606	10kΩ 5% 0.01W 0402
3031	4822 117 13606	10kΩ 5% 0.01W 0402
3034	3198 031 11010	4 x 100Ω 5% 1206
3035	3198 031 11010	4 x 100Ω 5% 1206
3048	3198 031 11010	4 x 100Ω 5% 1206
3049	3198 031 11010	4 x 100Ω 5% 1206
3050	3198 031 11010	4 x 100Ω 5% 1206
3051	3198 031 11010	4 x 100Ω 5% 1206
3052	3198 031 11010	4 x 100Ω 5% 1206
3053	4822 117 13545	100Ω 1% 0402
3054	3198 031 11010	4 x 100Ω 5% 1206
3055	3198 031 11010	4 x 100Ω 5% 1206
3056	3198 031 11010	4 x 100Ω 5% 1206
3057	3198 031 11010	4 x 100Ω 5% 1206
3062	4822 117 13606	10kΩ 5% 0.01W 0402
4002	4822 117 13605	Jumper 0402
4004	4822 117 13605	Jumper 0402

5001	2422 549 45333	Bead 120Ω at 100MHz

7001	9352 684 81557	SAA5801H/015
7002	9322 189 01668	AT24C32AN
7003	3198 010 70400	74LVC1G14GW
7006	9322 194 74671	M29W160ET70N6E
7007	9322 200 55668	IS41LV16100-50K

11. Revision List

Manual xxxx xxx xxxx.0

- First release.

Manual xxxx xxx xxxx.1

- Info on 42PF5421/10 added.